

# INTRODUCTION TO EXFOR EDITOR



**VIDYA THAKUR**  
**IET BHADDAL ROPAR, PUNJAB, INDIA**

**EXFOR COMPILATION OF NUCLEAR DATA**  
**M. S. UNIVERSITY OF BARODA, VADODARA**  
**12-16 NOVEMBER 2019**

# INTRODUCTION OF EXFOR EDITOR

Nuclear Data Compilation into EXFOR Format Version 3.0

File Sections Keywords Edit Processing Tools Help

EXFOR file Wizard Dummy  Renumber Subentries before Ordering  Use 67-80 Columns

Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer Entry Date 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

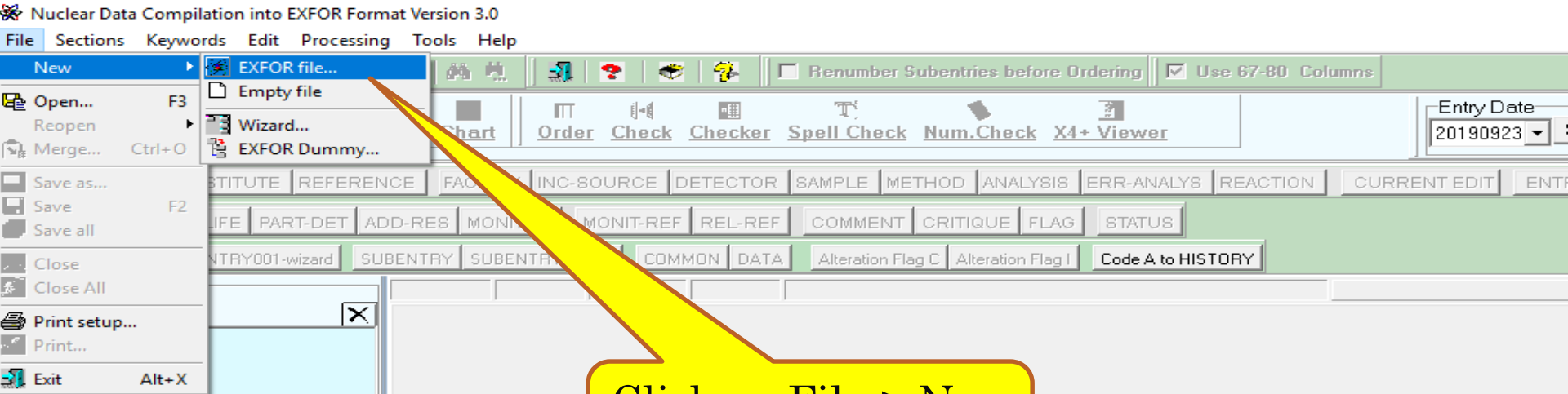
DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

EXFOR File Structure

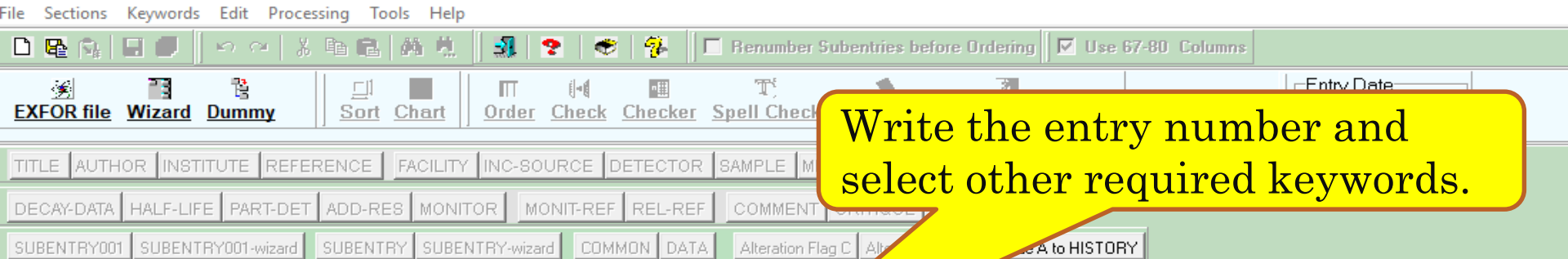
EXFOR File Structure panel with a close button (X).

Main editing area for EXFOR data entry.



Click on File-> New  
->EXFOR File

After clicking on EXFOR file button, a dialog box will appear



Write the entry number and select other required keywords.

Click on the CREATE button

**New EXFOR File**

ENTRY:       Number of Subentries:

**SUBENTRY 1 Contents**

**BIB Section**

<input checked="" type="checkbox"/> TITLE	<input checked="" type="checkbox"/> FACILITY	<input type="checkbox"/> MONITOR	<input type="checkbox"/> PART-DET
<input checked="" type="checkbox"/> AUTHOR	<input checked="" type="checkbox"/> SAMPLE	<input type="checkbox"/> INC-SOURCE	<input type="checkbox"/> HALF-LIFE
<input checked="" type="checkbox"/> INSTITUTE	<input checked="" type="checkbox"/> DETECTOR	<input type="checkbox"/> ANALYSIS	<input type="checkbox"/> COMMENT
<input checked="" type="checkbox"/> REFERENCE	<input type="checkbox"/> METHOD	<input type="checkbox"/> ERR-ANALYS	<input type="checkbox"/> CRITIQUE

**COMMON Section**

Active

Column Number:

**SUBENTRY 2** | **SUBENTRY 3**

**BIB section**

<input checked="" type="checkbox"/> REACTION	<input type="checkbox"/> ADD-RES
<input checked="" type="checkbox"/> SAMPLE	<input type="checkbox"/> PART-DET
<input type="checkbox"/> DETECTOR	<input type="checkbox"/> HALF-LIFE
<input type="checkbox"/> FLAG	<input type="checkbox"/> CORRECTION
<input checked="" type="checkbox"/> ERR-ANALYS	<input type="checkbox"/> COMMENT
<input checked="" type="checkbox"/> STATUS	<input type="checkbox"/> CRITIQUE

**COMMON Section**

Active

Column Number:

**DATA Section**

Active

Column Number:

Row Number:



Renummer Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy | Sort Chart | Order Check Checker Spell Check Num.Check X4+ Viewer |
 Entry Number: 33080 Set | Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

EXFOR File Structure

- ENTRY 33080
  - SUBENT 33080001
    - BIB
      - TITLE
      - AUTHOR
      - INSTITUTE
      - REFERENCE
      - HISTORY
    - ENDBIB
    - NOCOMMON
  - ENDSUBENT
  - SUBENT 33080002
    - BIB
      - REACTION
      - SAMPLE
      - ERR-ANALYS
      - STATUS
    - ENDBIB
    - NOCOMMON
    - NODATA
  - ENDSUBENT
  - SUBENT 33080003
    - BIB
      - REACTION
      - STATUS
    - ENDBIB
    - NOCOMMON
    - NODATA
  - ENDSUBENT
- ENDENTRY

Column: 1 Row: 1 Total: 31 Insert C:\exfdata-201610\EXFOREditor30\33080.exf

33080.exf		
ENTRY	33080	20190923
SUBENT	33080001	20190923
BIB		
TITLE		
AUTHOR		
INSTITUTE		
REFERENCE		
HISTORY	(20190923C)	
ENDBIB		
NOCOMMON		
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SUBENT	33080002	20190923
BIB		
REACTION		
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STATUS		
ENDBIB		
NOCOMMON		
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SUBENT	33080003	20190923
BIB		
REACTION		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
ENDENTRY		

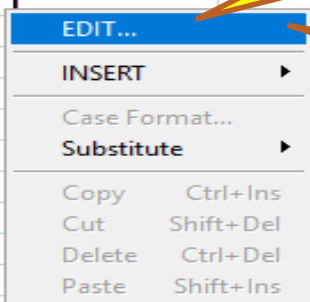
TITLE	AUTHOR	INSTITUTE	REFE	ERR-ANALYS
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Column: 12 Row: 4 Total: 34 Inse  
33080.exf

## EDIT the TITLE

Place the cursor within the TITLE cell and click the right mouse button.

ENTRY	33080	20190926	
SUBENT	33080001	20190926	
BIB			
TITLE			
AUTHOR			
INSTITUTE			
REFERENCE			
FACILITY			
SAMPLE			
DETECTOR			
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ENDBIB			
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ENDSUBENT			
SUBENT	33080002	20190926	
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REACTION			
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ERR-ANALYS			
STATUS			
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NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20190926	
BIB			
REACTION			
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ENDSUBENT			
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A popup menu will appear  
Left click on the EDIT button

Renumber Subentries before Ordering  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number 33080 Set Entry D 201909

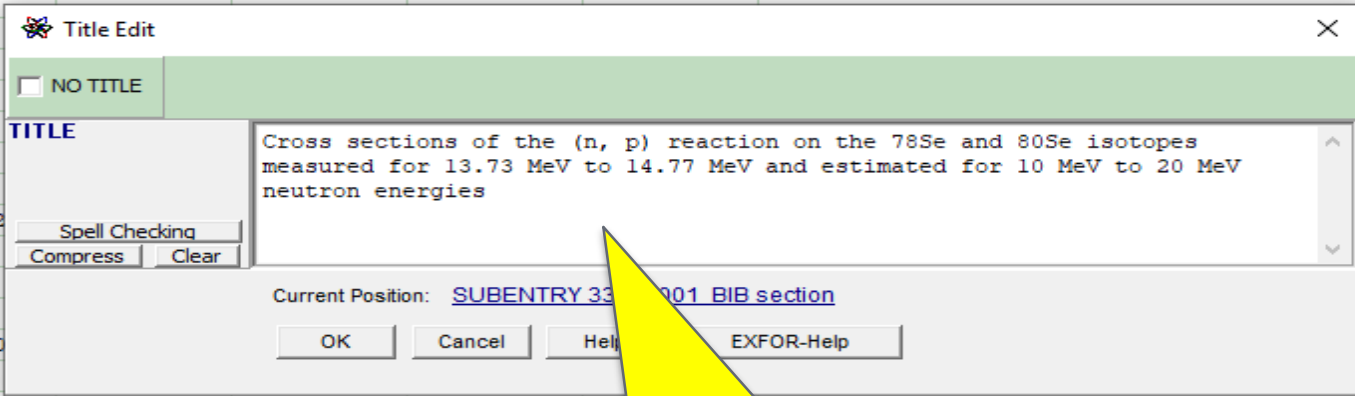
TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 4 Total: 34 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 BIB section  
33080.exf

ENTRY	33080	20190926			
SUBENT	33080001	20190926			
BIB					
TITLE					
AUTHOR					
INSTITUTE					
REFERENCE					
FACILITY					
SAMPLE					
DETECTOR					
HISTORY	(2019092				
ENDBIB					
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ENDSUBENT					
SUBENT	33080				
BIB					
REACTION					
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NODATA					
ENDSUBENT					
SUBENT	33080003	2			
BIB					
REACTION					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
ENDENTRY					

 Title Edit

NO TITLE

**TITLE**

Cross sections of the (n, p) reaction on the 78Se and 80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies

Spell Checking  
Compress Clear

Current Position: [SUBENTRY 33080001 BIB section](#)

OK Cancel Help EXFOR-Help

Write the **Title** of the paper in the dialog box and press OK button

TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION	CURRENT
DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS		
SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COMMON								
ENTRY	33080	20190926										
SUBENT	33080001	20190926										
BIB												
TITLE	Cross sections of the (n, p) reaction on the <sup>78</sup> Se and <sup>80</sup> Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies											
AUTHOR	F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar											
INSTITUTE	nTOF Collaboration											
REFERENCE												
FACILITY												
SAMPLE												
DETECTOR												
HISTORY	(20190926C)											
ENDBIB												
NOCOMMON												
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ENDSUBENT												
SUBENT	33080003	20190926										
BIB												
REACTION												
STATUS												
ENDBIB												
NOCOMMON												

**EDIT the AUTHOR**  
Write the author names in the dialog Box

Author List Edit

**AUTHOR** F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar

Compress Clear

Use spaces between Authors Convert Cyrillic Name

Name of Collaboration nTOF Collaboration Add

Current Position: SUBENTRY 33080001 BIB section

OK Cancel Help EXFOR-Help

33080.exf

ENTRY	33080	20190923			
SUBENT	33080001	20190923			
BIB					
TITLE	Cross sections of the (n, p) reaction on the <sup>78</sup> Se and <sup>80</sup> Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies				
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)				
INSTITUTE					
REFERENCE					
HISTORY	(20190923C)				
ENDBIB					
NOCOMMON					
ENDSUBENT					
SUBENT	33080002	20190923			
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SUBENT	33080003	20190923			
BIB					
REACTION					
STATUS					
ENDBIB					
NOCOMMON					
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ENDSUBENT					
ENDENTRY					

File Sections Keywords Edit Processing Tools Help

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry: 20190

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF RE

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON

Column: 12 Row: 8 Total: 36 Insert C:\EXFOREditor\EXFOREditor\33080.exf 33080.exf

ENTRY	33080	20190926									
SUBENT	33080001	20190926									
BIB											
TITLE	Cross sections of the (n, p) reaction on the 78 80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies										
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)										
INSTITUTE											
REFERENCE											
FACILITY											
SAMPLE											
DETECTOR											
HISTORY	(20190926C)										
ENDBIB											
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SUBENT	33080002	20190926									
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SUBENT	33080003	20190926									
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REACTION											
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ENDBIB											
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ENDSUBENT											
ENDENTRY											

**EDIT the INSTITUTE**  
 Select code of the institute for the author from the **Dictionary**.  
*In case code is not available for the INSTITUTE, select the country code.*

Institute edit

**INSTITUTE**

Spell Checking Compress Clear

Dictionary

3INDIND - India Search New Code Add to String

3INDIND - India  
 3INDIPB - Institute of Physics, Bhubaneswar  
 3INDISI - Indian Statistical Institute, Kolkata  
 3INDITK - Indian Institute of Technology, Kanpur  
 3INDJCB - Janta College, Bakewar  
 3INDJNU - Jawaharlal Nehru Univ., New Delhi  
 3INDKAL - Indra Gandhi Centre for Atomic Research, Kalpakkam  
 3INDKUD - Karnatak University, Dharwad  
 3INDKUK - Kurukshetra Univ., Kurukshetra  
 3INDLUL - Lucknow Univ., Lucknow  
 3INDMAD - Indian Institute of Technology, Madras  
 3INDMGA - Mahatma Ghandi Science Inst.of Technology, Ahmedabad

Press "Add to string"

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry D: 20190926

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA

Column: 12 Row: 8 Total: 36 Insert C:\EXFOREditor\EXFOREditor\33080.exf

ENTRY	33080	20190926									
SUBENT	33080001	20190926									
BIB											
TITLE	Cross sections of the (n, p) reaction on the 78, 80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies										
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)										
INSTITUTE											
REFERENCE											
FACILITY											
SAMPLE											
DETECTOR											
HISTORY	(20190926C)										
ENDBIB											
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SUBENT	33080003	20190926									
BIB											
REACTION											
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ENDBIB											
NOCOMMON											
NODATA											

After selecting the **country code** Add INSTITUTE information in free text.

Institute edit

**INSTITUTE** (3INDIND) Fergusson College, Pune

Spell Checking Compress Clear

Dictionary

Current Position: SUBENTRY 33080001 BIB section

OK Cancel Help EXFOR-Help



File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190926

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 8 Total: 36 Insert C:\EXFOREditor\EXFOREditor\33080.exf

33080.exf

ENTRY	33080	20190926			
SUBENT	33080001	20190926			
BIB					
TITLE	Cross sections of the (n, p) reaction on the 78Se and 80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies				
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)				
INSTITUTE					
REFERENCE					
FACILITY					
SAMPLE					
DETECTOR					
HISTORY	(20190926C)				
ENDBIB					
NOCOMMON					
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SUBENT	33080002	20190926			
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NODATA					
ENDSUBENT					
SUBENT	33080003	20190926			
BIB					
REACTION					
STATUS					
ENDBIB					

Select the institute code for the next author from the Dictionary

Institute edit

INSTITUTE (3INDIND) Fergusson College, Pune

Spell Checking

Compress Clear

Dictionary

3INDP00 - University of Pune

3INDP00 - University of Pune

3INDPRA - Phys.Res.Laboratory, Ahmedabad

3INDPUC - Punjab Univ., Chandigarh

3INDSAH - Saha Institute, Kolkata

3INDSRA - Saurashtra Univ., Raikot

3INDSUK - Shivaji Univ., Kolhapur

3INDTAT - Tata Institute, Mumbai

3INDTHO - Thoubal College, Thoubal

3INDTRM - Bhabha Atomic Res. Centre, Trombay

3INDURJ - Univ. of Rajasthan, Jaipur

3INDURR - Univ. of Roorkee, Roorkee

3INDVEC - Variable Energy Cyclotron Centre, Kolkata

Search New Code Add to String



TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION	CURRENT EDIT	EN
DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS			
SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COMMON	DATA								
ENTRY	33080	20190926											
SUBENT	33080001	20190926											
BIB													
TITLE	Cross sections of the (n, p) reaction on the 78Se and 80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies												
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)												
INSTITUTE													
REFERENCE													
FACILITY													
SAMPLE													
DETECTOR													
HISTORY	(20190926C)												
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ENDENTRY													

No need to put free text information if the INSTITUTE code is available

**Institute edit** [X]

**INSTITUTE**

(3INDIND) Fergusson College, Pune  
(3INDPOO)

Spell Checking [ ] Compress [ ] Clear [ ]

Dictionary [ ] Search [ ] New Code [ ] Add to String [ ]

Current Position: [SUBENTRY 33080001 BIB section](#)

OK [ ] Cancel [ ] Help [ ] EXFOR-Help [ ]

33080.exf

ENTRY	33080	20190923			
SUBENT	33080001	20190923			
BIB					
TITLE	Cross sections of the (n, p) reaction on the 78Se and 80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies				
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)				
INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)				
REFERENCE					
HISTORY	(20190923C)				
ENDBIB					
NOCOMMON					
ENDSUBENT					
SUBENT	33080002	20190923			
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SUBENT	33080003	20190923			
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REACTION					
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ENDENTRY					

File Sections Edit Processing Tools Help

Renumber Subentries before Ordering Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 10 Total: 37 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 BIB section

ENTRY	33080	20190926
SUBENT	33080001	20190926
BIB		
TITLE	Cross sections of the (n, 80Se isotopes measured for estimated for 10 MeV to 20	
AUTHOR	(F.M.D.Attar, S.D.Dhole, V	
INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)	
REFERENCE		
FACILITY		
SAMPLE		
DETECTOR		
HISTORY	(20190926C)	
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SUBENT	33080002	20190926
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SUBENT	33080003	20190926
BIB		
REACTION		
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ENDENTRY		

**EDIT the REFERENCE**  
 Select the required Reference Type from the drop down menu.

REFERENCE Edit

REFERENCE

Spell Checking Compress Clear

Reference Type : Journal

Edition (or Code) : Journal

Number (Reports/Preprint) :

Vol: [ ] I

#doi: [ ]

Abstract of journal  
 Progress report  
 Report other than progress report  
 Report containing conference proc.  
 Thesis or dissertation  
 Private communication  
 Preprint

Date: [ ] [ ] [ ] [ ] [ ] [ ]

New Record Add DOI

Current Position: SUBENTRY 33080001 BIB section

OK Cancel Help EXFOR-Help

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number 33080 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRE

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF C

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA

Select the Journal code from Edition Menu

Column: 11 Row: 10 Total: 37 Insert C:\EXFOREditor\EXFOREditor\33080.exf

33080.exf

ENTRY	33080	20190926								
SUBENT	33080001	20190926								
BIB										
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ENDENTRY										

RREFERENCE Edit

REFERENCE

Spell Checking Compress Clear

Reference Type : Journal

Edition (or Code) : PR/C - Phys.Rev. C

Number(Reports/Pre) : PR/C - Phys.Rev. C

Vol: [ ]

#doi: [ ]

- PR/D - Phys.Rev. D
- PRE - Proc.Roy.Soc.Ed.
- PRE/A - Proc.Roy.Soc.Ed.A
- PRL - Phys.Rev.Lett.
- PRM - Pramana
- PRS/A - Proc.Roy.Soc.Lond.,A
- PS - Phys.Scripta
- PSPS - Planet.Space.Sci.
- PSS - Phys.Status Solidi
- PT - Phys.Today
- PTE - Prib.Tekh.Eksp.

Search [ ] Record [ ] DOI [ ]

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ENTRY	33080	20190926									
SUBENT											
BIB											
TITLE											
AUTHOR											
INSTITUTE											
REFERENCE											
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SUBENT	33080003	201909									
BIB											
REACTION											
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Insert Vol. No., Page no., Date of the Journal

REFERENCE Edit

REFERENCE

Spell Checking Compress Clear

Reference Type : Journal

Edition (or Code) : PR/C -Phys.Rev. C Search

Number (Reports/Preprint): Author:

Vol: 90 Issue (Part) Page (Paper#): 064609 Date: 2014 **New Record**

#doi:

Current Position: SUBENTRY 33080001 BIB section

OK Cancel Help EXFOR-Help

Press the New Record button

33080.exf

ENTRY	33080	20190923			
SUBENT	33080001	20190923			
BIB					
TITLE	Cross sections of the (n, p) reaction on the <sup>78</sup> Se and <sup>80</sup> Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies				
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)				
INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)				
REFERENCE	(J, PR/C, 90, 064609, 2014)				
HISTORY	(20190923C)				
ENDBIB					
NOCOMMON					
ENDSUBENT					
SUBENT	33080002	20190923			
BIB					
REACTION					
SAMPLE					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
SUBENT	33080003	20190923			
BIB					
REACTION					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
ENDENTRY					

ENTRY	33080	20190926									
SUBENT	33080001	20190926									
BIB											
TITLE	Cross sections of the (n, p) reaction on the 80Se isotopes measured for 13.73 MeV to 14.7 estimated for 10 MeV to 20 MeV neutron energy										
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)										
INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)										
REFERENCE	(J, PR/C, 90, 064609, 2014)										
FACILITY											
SAMPLE											
DETECTOR											
HISTORY	(20190926C)										
ENDBIB											
NOCOMMON											
ENDSUBENT											
SUBENT	33080002	20190926									
BIB											
REACTION											
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ERR-ANALYS											
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SUBENT	33080003	20190926									
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REACTION											
STATUS											
ENDBIB											
NOCOMMON											
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ENDSUBENT											
ENDENTRY											

**EDIT the FACILITY**  
 Select the Facility code from the drop down menu of the Facility Dictionary

Facility Description

**FACILITY**

Spell Checking Compress Clear

Facility Dictionary

CCW - Cockcroft-Walton accelerator

CHOPF - Fast chopper (NEUT)

CHOPS - Slow chopper (NEUT)

CRASS - Critical assembly (NEUT)

CYCLO - Cyclotron

CYCTM - Tandem cyclotrons

CYGFF - Cyclograaf

DYNAM - Dynamitron

ESTRG - Electron storage ring

FNS - Fusion neutron source

FRS - Fragment separator

ICTR - Insulated core transformer accelerator

Search New Code Add to String

Search Add to string

Press "Add to String" button



File	Sections	Keywords	Edit	Processing	Tools	Help					Renumber Subentries before Ordering		Use 67-80 Columns	
EXFOR file	Wizard	Dummy	Sort Chart		Order	Check	Checker	Spell Check	Num.Check	X4+ Viewer	Entry Number 33080 Set	Entry Date 20190926 Se		
TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION	CURRENT EDIT	ENTRY	
DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS				
SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COMMON	DATA	Alteration Flag C	Alteration Flag I	Code A to HISTORY						
Column: 12	Row: 11	Total: 37	Insert	C:\EXFOREditor\EXFOREditor\33080.exf				SUBENTRY 33080001 BIB section						
33080.exf														
ENTRY	33080	20190926												
SUBENT	33080001	20190926												
BIB														
TITLE	Cross sections of the (n, p) reaction on the 78Se and 80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies													
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INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)													
REFERENCE	(J, PR/C, 90, 064609, 2014)													
FACILITY														
SAMPLE														
DETECTOR														
HISTORY	(20190926C)													
ENDBIB														
NOCOMMON														
ENDSUBENT														
SUBENT	33080002	20190926												
BIB														
REACTION														
SAMPLE														
ERR-ANALYS														
STATUS														
ENDBIB														
NOCOMMON														
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ENDSUBENT														
SUBENT	33080003	20190926												
BIB														
REACTION														
STATUS														
ENDBIB														
NOCOMMON														
NODATA														
ENDSUBENT														
ENDENTRY														

Facility Description

**FACILITY** (CCW)

Spell Checking  
Compress Clear

Facility Dictionary

Institute Dictionary

3INDPOO - University of Pune  
3INDPRA - Phys.Res.Laboratory, Ahmedabad  
3INDPUC - Punjab Univ., Chandigarh  
3INDSAH - Saha Institute, Kolkata  
3INDSRA - Saurashtra Univ., Rajkot  
3INDSUK - Shivaji Univ., Kolhapur  
3INDTAT - Tata Institute, Mumbai  
3INDTHD - Thoubal College, Thouba  
3INDTRM - Bhabha Atomic Res. Centre, Trombay  
3INDURJ - Univ. of Rajasthan, Jaipur  
3INDURR - Univ. of Roorkee, Roorkee  
3INDVEC - Variable Energy Cyclotron Centre, Kolkata

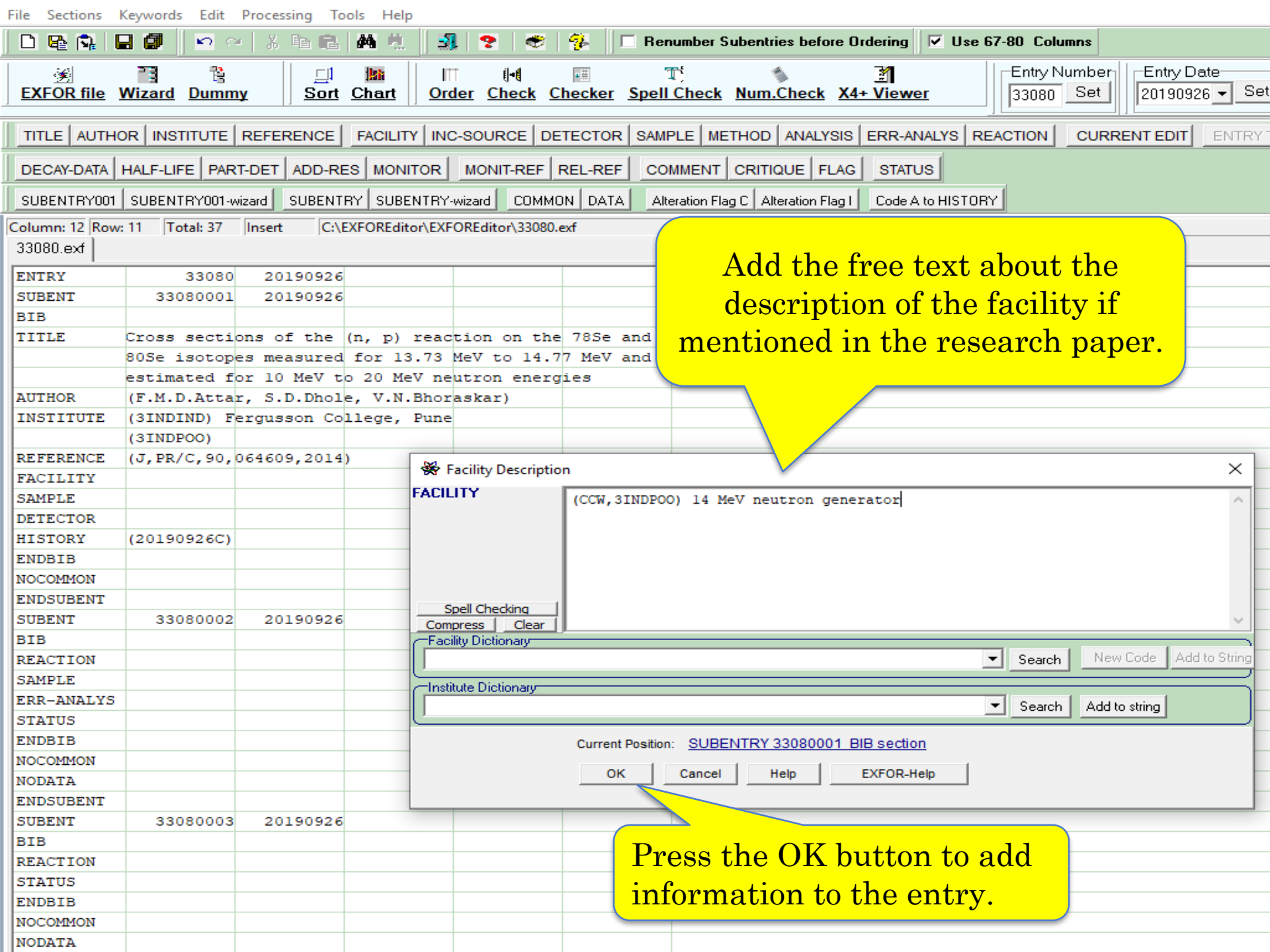
Search New Code Add to String

Search Add to string

Select Institute code from the Institute Dictionary

Press "Add to String" button





Add the free text about the description of the facility if mentioned in the research paper.

Press the OK button to add information to the entry.

File Sections Keywords Edit Processing Tools Help

Renummer Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190926

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 12 Total: 37 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 BIB section 33080.exf

ENTRY	33080	20190926	
SUBENT	33080001	20190926	
BIB			
TITLE	Cross sections of the (n, p) reaction on the 78Se and 80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies		
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)		
INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)		
REFERENCE	(J, PR/C, 90, 064609, 2014)		
FACILITY	(CCW, 3INDPOO) 14 MeV neutron generator		
INC-SOURCE			
DETECTOR			
HISTORY	(20190926C)		
ENDBIB			
NOCOMMON			
ENDSUBENT			
SUBENT	33080002	20190926	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20190926	
BIB			
REACTION			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			

**Edit the INC-SOURCE keyword and select source of the incident particle beam used in the experiment from dictionary code.**

Inc-source edit

INC-SOURCE

Spell Checking Compress Clear

Dictionary

D-T - Deuteron-Tritium (NEUT)

D-T - Deuteron-Tritium (NEUT)

EVAP - Evaporation neutrons (NEUT)

EXPLO - Nuclear explosive device (NEUT)

HARD - Hardened (PHOT)

KINDT - Kinematically determined (PHOT)

LAMB - Lamb-shift source (PHOT)

LCS - Laser Compton Scattered Photons (PHOT)

MPH - Monoenergetic photons (PHOT)

P-BE - Proton-Beryllium (NEUT)

P-D - Proton-Deuterium (NEUT)

PHOTO - Photo-neutron (NEUT)

P-LI7 - Proton-Lithium 7 (NEUT)

Search New Code Add to String

File Sections Keywords Edit Processing Tools Help

REnumber Subentries before Ordering Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190926 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 12 Total: 37 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 BIB section 33080.exf

ENTRY	33080	20190926									
SUBENT	33080001	20190926									
BIB											
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INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)										
REFERENCE	(J, PR/C, 90, 064609, 2014)										
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DETECTOR											
HISTORY	(20190926C)										
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SUBENT	33080002	20190926									
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ERR-ANALYS											
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SUBENT	33080003	20190926									
BIB											
REACTION											
STATUS											
ENDBIB											
NOCOMMON											
NODATA											
ENDSUBENT											

Add free text description if provided in the paper . Press OK button

Inc-source edit

**INC-SOURCE**

(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target

Spell Checking Compress Clear

Dictionary Search New Code Add to String

Current Position: SUBENTRY 33080001 BIB section

OK Cancel Help EXFOR-Help

33080.exf

ENTRY	33080	20190923			
SUBENT	33080001	20190923			
BIB					
TITLE	Cross sections of the (n, p) reaction on the <sup>78</sup> Se and <sup>80</sup> Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies				
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)				
INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)				
REFERENCE	(J,PR/C,90,064609,2014)				
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator				
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target				
DETECTOR					
HISTORY	(20190923C)				
ENDBIB					
NOCOMMON					
ENDSUBENT					
SUBENT	33080002	20190923			
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REACTION					
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ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
SUBENT	33080003	20190923			
BIB					
REACTION					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
ENDENTRY					

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy
 Sort Chart
 Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set
 Entry Date: 20190926 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 14 Total: 38 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 BIB section 33080.exf

ENTRY	33080	20190926					
SUBENT	33080001	20190926					
BIB							
TITLE	Cross sections of the (n, p) reaction on the <sup>78</sup> Se and <sup>80</sup> Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies						
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)						
INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)						
REFERENCE	(J,PR/C,90,064609,2014)						
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator						
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target						
DETECTOR							
HISTORY	(20190926C)						
ENDBIB							
NOCOMMON							
ENDSUBENT							
SUBENT	33080002	20190926					
BIB							
REACTION							
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ERR-ANALYS							
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ENDBIB							
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ENDSUBENT							
SUBENT	33080003	20190926					
BIB							
REACTION							
STATUS							
ENDBIB							
NOCOMMON							
NODATA							

**EDIT the DETECTOR**  
 Select DETECTOR from the dictionary drop down menu

Detector edit

**DETECTOR**

Spell Checking

Dictionary:  
 HPGE - Hyperpure Germanium detector (GAM)   
  
 HPGE - Hyperpure Germanium detector (GAM)
   
 IMPSI - Passivated implanted planar Si detector
   
 IOCH - Ionization chamber
   
 LEGE - Low energy Germanium Detector (GAM)
   
 LONGC - Long counter (NEU)
   
 MAGSP - Magnetic spectrometer
   
 MCPLT - Microchannel plate
   
 MOXR - Moxon-Rae detector (GAM)
   
 MTANK - Moderating tank detector
   
 MWDC - Multi-wire drift chamber
   
 MWPC - Multi-wire proportional counter
   
 MWSC - Multi-wire spark counter

press the "Add To String"

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190926 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY TITLE

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 14 Total: 38 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 BIB section

ENTRY	33080	20190926	
SUBENT	33080001	20190926	
BIB			
TITLE	Cross sections of the (n, p) reaction on the 78Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies		
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)		
INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)		
REFERENCE	(J, PR/C, 90, 064609, 2014)		
FACILITY	(CCW, 3INDPOO) 14 MeV neutron generator		
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target		
DETECTOR			
HISTORY	(20190926C)		
ENDBIB			
NOCOMMON			
ENDSUBENT			
SUBENT	33080002	20190926	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
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ENDBIB			
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NODATA			
ENDSUBENT			
SUBENT			
BIB			
REACTION			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Add the important information about detector in the free text that is provided in the paper.

Detector edit

**DETECTOR**

(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.

Spell Checking  
 Compress Clear

Dictionary: [ ] Search New Code Add to String

Current Position: [SUBENTRY 33080001 BIB section](#)

Press the OK button

	80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies	
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)	
INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)	
REFERENCE	(J,PR/C,90,064609,2014)	
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator	
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target	
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.	
ERR-ANALYS		
HISTORY	(20190923C)	
ENDBIB		
NOCOMMON		
ENDSUBENT		
SUBENT	33080002	20190923
BIB		
REACTION		
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SUBENT	33080003	20190923
BIB		
REACTION		
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ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
ENDENTRY		



80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies

AUTHOR (F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)

INSTITUTE (3INDIND) Fergusson College, Pune (3INDPOO)

REFERENCE (J, PR/C, 90, 064609, 2014)

FACILITY (CCW, 3INDPOO) 14 MeV neutron generator

INC-SOURCE (D-T) Deuterium ion beam (175 keV, ~4 mm in d ~100 uA on target) on an 8 Curie tritium targ

DETECTOR (HPGE) To measure gamma-ray activities of the irradiated samples.

The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.

ERR-ANALYS HISTORY (20190926C) ENDBIB NOCOMMON ENDSUBENT SUBENT BIB REACTION SAMPLE ERR-ANALYS STATUS ENDBIB NOCOMMON NODATA ENDSUBENT SUBENT BIB REACTION STATUS ENDBIB

**EDIT the ERR-ANALYS**  
Select ERR-1 from the dictionary

**Error Source Description**

ERR-ANALYS

Spell Checking Compress Clear

Dictionary

- ERR-1 - 1st partial uncertainty, defined under ERR-ANALYS
- ERR-1 - 1st partial uncertainty, defined under ERR-ANALYS
- ERR-10 - 10th partial uncertainty, defined under ERR-ANALYS
- ERR-11 - 11th partial uncertainty, defined under ERR-ANALYS
- ERR-12 - 12th partial uncertainty, defined under ERR-ANALYS
- ERR-13 - 13th partial uncertainty, defined under ERR-ANALYS
- ERR-14 - 14th partial uncertainty, defined under ERR-ANALYS
- ERR-15 - 15th partial uncertainty, defined under ERR-ANALYS
- ERR-2 - 2nd partial uncertainty, defined under ERR-ANALYS
- ERR-2 - Unsymmetric 2nd partial uncertainty, see ERR-ANALYS.
- ERR-3 - 3rd partial uncertainty, defined under ERR-ANALYS
- ERR-4 - 4th partial uncertainty, defined under ERR-ANALYS
- ERR-5 - 5th partial uncertainty, defined under ERR-ANALYS

Search Add

Add New Record



33080.exf

80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies

AUTHOR (F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)

INSTITUTE (3INDIND) Fergusson College, Pune (3INDPOO)

REFERENCE (J, PR/C, 90, 064609, 2014)

FACILITY (CCW, 3INDPOO) 14 MeV neutron generator

INC-SOURCE (D-T) Deuterium ion beam (175 keV, ~4 mm ~100 uA on target) on an 8 Curie tritium

DETECTOR (HPGE) To measure gamma-ray activities of irradiated samples.

The detection efficiency was measured with make Multi Standard MGS-3 gamma-ray source.

ERR-ANALYS

HISTORY (20190926C)

ENDBIB

NOCOMMON

ENDSUBENT

SUBENT

BIB

REACTION

SAMPLE

ERR-ANALYS

STATUS

ENDBIB

NOCOMMON

NODATA

ENDSUBENT

SUBENT

BIB

REACTION

STATUS

If author provided approx. value of error then add this value with information in free text. Later add this error value in COMMON section.

**Error Source Description**

**ERR-ANALYS** (ERR-1) Detector efficiency (~1.5%)

Spell Checking  Compress  Clear

Dictionary: ERR-1 - 1st partial uncertainty, defined under ERR-ANALYS  Search  Add

Minimum Value, %  Add  Maximum Value, %  Add  Correlation Property  Add

**New Record**

Current Position: [SUBENTRY 33080001 BIB section](#)

OK  Cancel  Help  EXFOR-Help

Press "New Record"

	80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)
INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)
REFERENCE	(J,PR/C,90,064609,2014)
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.
ERR-ANALYS HISTORY	(20190926C)

**Error Source Description**

**ERR-ANALYS** (ERR-1) Detector efficiency (

Spell Checking  
Compress Clear

Dictionary

- ERR-2 - 2nd partial uncertainty, defined under ERR-ANALYS
- ERR-2 - 2nd partial uncertainty, defined under ERR-ANALYS
- ERR-2 - - Unsymmetric 2nd partial uncertainty, see ERR-ANALYS.
- ERR-3 - 3rd partial uncertainty, defined under ERR-ANALYS
- ERR-4 - 4th partial uncertainty, defined under ERR-ANALYS
- ERR-5 - 5th partial uncertainty, defined under ERR-ANALYS
- ERR-5 - - Unsymmetric 5th partial uncertainty, see ERR-ANALYS.
- ERR-6 - 6th partial uncertainty, defined under ERR-ANALYS
- ERR-7 - 7th partial uncertainty, defined under ERR-ANALYS
- ERR-8 - 8th partial uncertainty, defined under ERR-ANALYS
- ERR-9 - 9th partial uncertainty, defined under ERR-ANALYS
- ERR-DIG - Digitizing error (of DATA)
- ERR-EDD - Error of energy value given under DECAY-DATA

Search Add

Add **New Record**

Select ERR-2 from the dictionary and press New Record.

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Col

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION  
 DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS  
 SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 18 Total: 42 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 BIB section 33080.exf

80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies

AUTHOR (F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)

INSTITUTE (3INDIND) Fergusson College, Pune (3INDPOO)

REFERENCE (J, PR/C, 90, 064609, 2014)

FACILITY (CCW, 3INDPOO) 14 MeV neutron generator

INC-SOURCE (D-T) Deuterium ion beam (175 keV, ~4 mm in dia ~100 uA on target) on an 8 Curie tritium target

DETECTOR (HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Ca make Multi Standard MGS-3 gamma-ray source.

ERR-ANALYS HISTORY (20190926C)

After selecting ERR-2 add Min. and Max. value of error if given

ENDBIB  
NOCOMMON  
ENDSUBENT  
SUBENT  
BIB  
REACTION  
SAMPLE  
ERR-ANALYS  
STATUS  
ENDBIB  
NOCOMMON  
NODATA  
ENDSUBENT  
SUBENT  
BIB  
REACTION  
STATUS  
ENDBIB

Error Souce Description

ERR-ANALYS (ERR-1) Detector efficienc... (0.5%)

Spell Checking  
 Compress Clear

Dictionary  
 ERR-2 - 2nd partial uncertainty, defined under ERR-ANALYS Search Add

Minimum Value, % Add Maximum Value, % Add Correlation Property Add

14 Add

**New Record**

Current Position: [SUBENTRY 33080001 BIB section](#)

OK Cancel Help EXFOR-Help

Press "New Record"

TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION	
DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS		
SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COMMON	DATA	Alteration Flag C	Alteration Flag I	Code A to HISTORY				
Column: 11	Row: 18	Total: 42	Insert	C:\EXFOREditor\EXFOREditor\33080.exf				SUBENTRY 33080001 BIB section				
33080.exf												
	80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies											
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)											
INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)											
REFERENCE	(J,PR/C,90,064609,2014)											
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator											
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target											
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.											
ERR-ANALYS HISTORY	(20190926C)											
ENDBIB												
NOCOMMON												
ENDSUBENT												
SUBENT												
BIB												
REACTION												
SAMPLE												
ERR-ANALYS												
STATUS												
ENDBIB												
NOCOMMON												
NODATA												
ENDSUBENT												
SUBENT												
BIB												
REACTION												
STATUS												
ENDBIB												
NOCOMMON												

Error Source Description

**ERR-ANALYS**

(ERR-1) Detector efficiency (~1.5%)  
 (ERR-2,,14.) Self absorption of gamma-rays (<14%)

Dictionary

ERR-2 - 2nd partial uncertainty, defined under ERR-ANALYS

Minimum Value, %  
 Maximum Value, %  
 Correlation Property

Current Position: [SUBENTRY 33080001 BIB section](#)

Renumber Subentries before Ordering  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry D: 201909

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 18 Total: 42 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 BIB section  
33080.exf

80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies

AUTHOR (F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)

INSTITUTE (3INDIND) Fergusson College, Pune (3INDPOO)

REFERENCE (J,PR/C,90,064609,2014)

FACILITY (CCW,3INDPOO) 14 MeV neutron generator

INC-SOURCE (D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target

DETECTOR (HPGE) To measure gamma-ray activities of the irradiated samples.

The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.

ERR-ANALYS

HISTORY (20190926C)

Select ERR-3 from the dictionary

ENDBIB

NOCOMMON

ENDSUBENT

SUBENT

BIB

REACTION

SAMPLE

ERR-ANALYS

STATUS

ENDBIB

NOCOMMON

NODATA

ENDSUBENT

SUBENT

BIB

REACTION

STATUS

ENDBIB

✖ Error Souce Description

ERR-ANALYS

(ERR-1) Detector efficiency (~1.5%)  
(ERR-2,,14.) Self absorption of gamma-rays (

Spell Checking

Compress Clear

Dictionary

ERR-3 - 3rd partial uncertainty, defined under ERR-ANALYS

ERR-3 - 3rd partial uncertainty, defined under ERR-ANALYS

ERR-4 - 4th partial uncertainty, defined under ERR-ANALYS

ERR-5 - 5th partial uncertainty, defined under ERR-ANALYS

ERR-5 - - Unsymmetric 5th partial uncertainty, see ERR-ANALYS.

ERR-6 - 6th partial uncertainty, defined under ERR-ANALYS

ERR-7 - 7th partial uncertainty, defined under ERR-ANALYS

ERR-8 - 8th partial uncertainty, defined under ERR-ANALYS

ERR-9 - 9th partial uncertainty, defined under ERR-ANALYS

ERR-DIG - Digitizing error (of DATA)

ERR-EDD - Error of energy value given under DECAY-DATA

ERR-HL - Error of half-life value given under DECAY-DATA

ERR-IDD - Error of intensity value given under DECAY-DATA

Search Add

Add New Record



File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Col

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION  
 DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS  
 SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 18 Total: 42 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 BIB section 33080.exf

80Se isotopes measured for 13.73 MeV to 14.77 MeV estimated for 10 MeV to 20 MeV neutron energies

AUTHOR (F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)

INSTITUTE (3INDIND) Fergusson College, Pune (3INDPOO)

REFERENCE (J,PR/C,90,064609,2014)

FACILITY (CCW,3INDPOO) 14 MeV neutron generator

INC-SOURCE (D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target

DETECTOR (HPGE) To measure gamma-ray activities of the irradiated samples.  
The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.

ERR-ANALYS HISTORY (20190926C)

After selecting ERR-3, add Min. and Max. value of error if given

**Error Source Description**

ERR-ANALYS

(ERR-1) Detector efficiency (~1.5%)  
(ERR-2,,14.) Self absorption of gamma-rays (<14%)

Dictionary: ERR-3 - 3rd partial uncertainty, defined under ERR-ANALYS

Minimum Value, %:  Add

Maximum Value, %:  Add

Correlation Property:  Add

**New Record**

Current Position: SUBENTRY 33080001 BIB section

OK Cancel Help EXFOR-Help

Press "New Record"

ENDBIB  
NOCOMMON  
ENDSUBENT  
SUBENT  
BIB  
REACTION  
STATUS  
ENDBIB  
NOCOMMON  
NODATA  
ENDSUBENT  
ENDENTRY

TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION
DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS	
SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COMMON	DATA	Alteration Flag C	Alteration Flag I	Code A to HISTORY			

Column: 11 Row: 18 Total: 42 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 BIB section 33080.exf

	80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies										
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)										
INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)										
REFERENCE	(J,PR/C,90,064609,2014)										
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator										
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target										
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples.										
	The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.										
ERR-ANALYS HISTORY	(20190926C)										

ENDBIB  
 NOCOMMON  
 ENDSUBENT  
 SUBENT  
 BIB  
 REACTION  
 SAMPLE  
 ERR-ANALYS  
 STATUS  
 ENDBIB  
 NOCOMMON  
 NODATA  
 ENDSUBENT  
 SUBENT  
 BIB  
 REACTION  
 STATUS  
 ENDBIB  
 NOCOMMON  
 NODATA  
 ENDSUBENT  
 ENDBIB

**Error Source Description**

**ERR-ANALYS**

(ERR-1) Detector efficiency (~1.5%)  
 (ERR-2,,14.) Self absorption of gamma-rays (<14%)  
 (ERR-3,,1.) Neutron energy distribution (<1%)

Dictionary: ERR-3 - 3rd partial uncertainty, defined under ERR-ANALYS

Minimum Value, %:    
 Maximum Value, %: 1   
 Correlation Property:

Current Position: [SUBENTRY 33080001 BIB section](#)

File Sections Keywords Edit Tools Help

Renumber Subentries before Ordering Use 67-80 Color

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number 33080

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 18 Total: 42 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 BIB section 33080.exf

80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies

AUTHOR (F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)

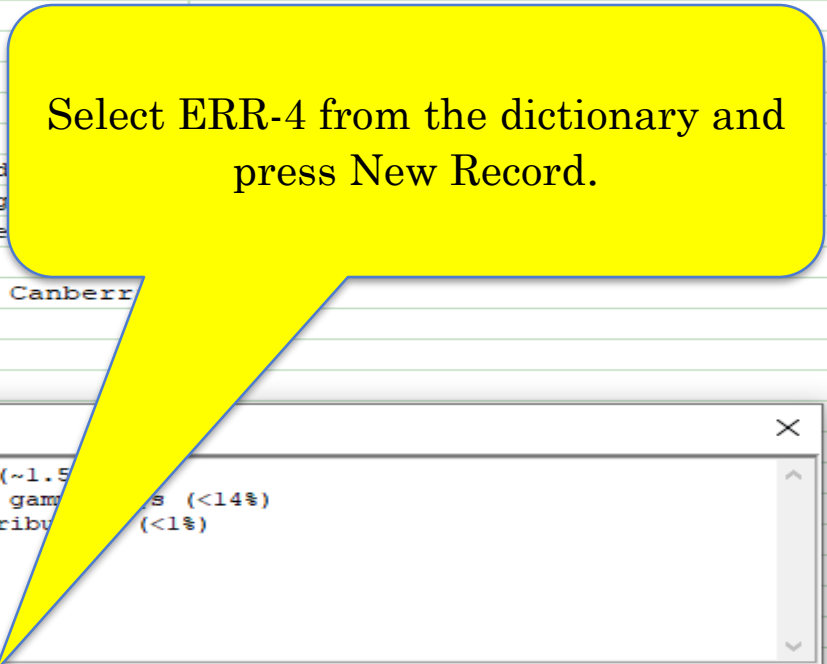
INSTITUTE (3INDIND) Fergusson College, Pune (3INDEPOO)

REFERENCE (J,PR/C,90,064609,2014)

FACILITY (CCW,3INDPOO) 14 MeV neutron generator

INC-SOURCE (D-T) Deuterium ion beam (175 keV, ~4 mm in d ~100 uA on target) on an 8 Curie tritium target

DETECTOR (HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.



ERR-ANALYS HISTORY (20190926C) ENDBIB NOCOMMON ENDSUBENT SUBENT BIB REACTION SAMPLE ERR-ANALYS STATUS ENDBIB NOCOMMON NODATA ENDSUBENT SUBENT BIB REACTION STATUS ENDBIB NOCOMMON

Error Souce Description

ERR-ANALYS (ERR-1) Detector efficiency (~1.5%) (ERR-2,,14.) Self absorption of gamma rays (<14%) (ERR-3,,1.) Neutron energy distribution (<1%)

Spell Checking Compress Clear

Dictionary

- ERR-4 - 4th partial uncertainty, defined under ERR-ANALYS
- ERR-4 - 4th partial uncertainty, defined under ERR-ANALYS
- ERR-5 - 5th partial uncertainty, defined under ERR-ANALYS
- ERR-5 - Unsymmetric 5th partial uncertainty, see ERR-ANALYS.
- ERR-6 - 6th partial uncertainty, defined under ERR-ANALYS
- ERR-7 - 7th partial uncertainty, defined under ERR-ANALYS
- ERR-8 - 8th partial uncertainty, defined under ERR-ANALYS
- ERR-9 - 9th partial uncertainty, defined under ERR-ANALYS
- ERR-DIG - Digitizing error (of DATA)
- ERR-EDD - Error of energy value given under DECAY-DATA
- ERR-HL - Error of half-life value given under DECAY-DATA
- ERR-IDD - Error of intensity value given under DECAY-DATA
- ERR-S - Statistical uncertainty (1-Sigma)

Search Add

Add New Record



File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURVE

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 18 Total: 42 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 BIB section 33080.exf

80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies

AUTHOR (F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)

INSTITUTE (3INDIND) Fergusson College, Pune (3INDIND)

REFERENCE (J, PR/C, 90, 064609, 2014)

FACILITY (CCW, 3INDPOO) 14 MeV neutron generator

INC-SOURCE (D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target

DETECTOR (HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a C make Multi Standard MGS-3 gamma-ray source.

ERR-ANALYS HISTORY (20190926C)

After selecting ERR-4, add Min. and Max. value of error if given

**Error Source Description**

**ERR-ANALYS**

(ERR-1) Detector efficiency (~1.5%)  
 (ERR-2,,14.) Self absorption of gamma-rays (<14%)  
 (ERR-3,,1.) Neutron energy distribution (<1%)

Spell Checking Compress Clear

Dictionary: ERR-4 - 4th partial uncertainty, defined under ERR-ANALYS Search Add

Minimum Value, % Add Maximum Value, % Add Correlation Property Add

2.2

**New Record**

Current Position: SUBENTRY 33080001 BIB section

OK Cancel Help EXFOR-Help

Press "New Record"

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION  
 DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS  
 SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Entry No  
33080

Column: 11 Row: 18 Total: 42 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 BIB section 33080.exf

80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies

AUTHOR (F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)

INSTITUTE (3INDIND) Fergusson College, Pune (3INDPOO)

REFERENCE (J,PR/C,90,064609,2014)

FACILITY (CCW,3INDPOO) 14 MeV neutron generator

INC-SOURCE (D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target

DETECTOR (HPGE) To measure gamma-ray activities of the irradiated samples.

The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.

ERR-ANALYS HISTORY (20190926C)

ENDBIB  
NOCOMMON  
ENDSUBENT  
SUBENT  
BIB  
REACTION  
SAMPLE  
ERR-ANALYS  
STATUS  
ENDBIB  
NOCOMMON  
NODATA  
ENDSUBENT  
SUBENT  
BIB  
REACTION  
STATUS  
ENDBIB  
NOCOMMON

**Error Source Description**

**ERR-ANALYS**

(ERR-1) Detector efficiency (~1.5%)  
 (ERR-2,,14.) Self absorption of gamma-rays (<14%)  
 (ERR-3,,1.) Neutron energy distribution (<1%)  
 (ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)

Dictionary  
 ERR-4 - 4th partial uncertainty, defined under ERR-ANALYS

Minimum Value, %  
 Maximum Value, %  
 Correlation Property

Current Position: [SUBENTRY 33080001 BIB section](#)

33080.exf

INSTITUTE	(3INDIND) Fergusson College, Pune			
	(3INDPOO)			
REFERENCE	(J,PR/C,90,064609,2014)			
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator			
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target			
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples.			
	The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.			
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%)			
	(ERR-2,,14.) Self absorption of gamma-rays (<14%)			
	(ERR-3,,1.) Neutron energy distribution (<1%)			
	(ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)			
HISTORY	(20190923C)			
ENDBIB				
NOCOMMON				
ENDSUBENT				
SUBENT	33080002	20190923		
BIB				
REACTION				
SAMPLE				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDSUBENT				
SUBENT	33080003	20190923		
BIB				
REACTION				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDSUBENT				
ENDENTRY				

Renumber Subentries before Ordering     Use 67-80 Columns  
**EXFOR file**   **Wizard**   **Dummy**   |   **Sort**   **Chart**   |   **Order**   **Check**   **Checker**   **Spell Check**   **Num.Check**   **X4+ Viewer**   |   Entry Number: 33080   Set   |   Entry Date: 20190926

TITLE | AUTHOR | INSTITUTE | REFERENCE | FACILITY | INC-SOURCE | DETECTOR | SAMPLE | METHOD | ANALYSIS | ERR-ANALYS | REACTION | CURRENT EDIT  
 DECAY-DATA | HALF-LIFE | PART-DET | ADD-RES | MONITOR | MONIT-REF | REL-REF | COMMENT | CRITIQUE | FLAG | STATUS  
 SUBENTRY001 | SUBENTRY001-wizard | SUBENTRY | SUBENTRY-wizard | COMMON | DATA | Alteration Flag C | Alteration Flag I | Code A to HISTORY

Column: 12 Row: 22 Total: 45 Insert C:\EXFOR\Editor\EXFOR\Editor\33080.exf SUBENTRY 33080001 BIB section 33080.exf

INSTITUTE	(3INDIND) Fergusson College, Pune		
	(3INDPOO)		
REFERENCE	(J,PR/C,90,064609,2014)		
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator		
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target		
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.		
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%) (ERR-2,,14.) Self absorption of gamma-rays (<14%) (ERR-3,,1.) Neutron energy distribution (<1%) (ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)		
HISTORY	(20190926C)		
ENDBIB			
NOCOMMON			
ENDSUBENT			
SUBENT	33080002	20190926	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20190926	
BIB			
REACTION			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**EDIT the HISTORY** keyword and write the name of compiler.

**Handling of Entry**

**HISTORY** (20190926C) VT

Spell Checking    Compress    Clear

Date: Thursday, September 2    Code: C - Compiled at the data center    New code

Current Position: [SUBENTRY 33080001 BIB section](#)

OK    Cancel    Help    EXFOR-Help

EXFOR File Structure

- ENTRY 33080
  - SUBENT 33080001
    - BIB
      - TITLE
      - AUTHOR
      - INSTITUTE
      - REFERENCE
      - FACILITY
      - INC-SOURCE
      - DETECTOR
      - ERR-ANALYS
      - HISTORY
    - ENDBIB
    - NOCOMMON
  - ENDSUBENT
  - SUBENT 33080002
    - BIB
      - REACTION
      - SAMPLE
      - ERR-ANALYS
      - STATUS
    - ENDBIB
    - NOCOMMON
    - NODATA
  - ENDSUBENT
  - SUBENT 33080003
    - BIB
      - REACTION
      - STATUS
    - ENDBIB
    - NOCOMMON
    - NODATA
  - ENDSUBENT
- ENDENTRY

INSTITUTE	(3INDIND) Fergusson College, Pune		
	(3INDPOO)		
REFERENCE	(J,PR/C,90,064609,2014)		
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator		
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target		
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples.		
	The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.		
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%)		
	(ERR-2,,14.) Self absorption of gamma-rays (<14%)		
	(ERR-3,,1.) Neutron energy distribution (<1%)		
	(ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)		
HISTORY	(20190923C) VT		
ENDBIB			
NOCOMMON			
ENDSUBENT			
SUBENT	33080002	20190923	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION
DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS	
SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COMMON	DATA	Alteration Flag C	Alteration Flag I	Code A to HISTORY			

Column: 12 Row: 24 Total: 45 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 No COMMON section 33080.exf

INSTITUTE	(3INDIND) Fergusson College, Pune										
	(3INDPOO)										
REFERENCE	(J,PR/C,90,064609,2014)										
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator										
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam										
	~100 uA on target) on an 8 Curie tritium target										
DETECTOR	(HPGE) To measure gamma-ray activities of the										
	irradiated samples.										
	The detection efficiency was measured with Canberra										
	make Multi Standard MGS-3 gamma-ray spectrometers.										
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%)										
	(ERR-2,,14.) Self absorption of gamma-rays (<14%)										
	(ERR-3,,1.) Neutron energy distribution (<1%)										
	(ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)										
HISTORY	(20190926C) VT										
ENDBIB											
NOCOMMON											
ENDSUBENT											
SUBENT											
BIB											
REACTION											
SAMPLE											
ERR-ANALYS											
STATUS											
ENDBIB											
NOCOMMON											
NODATA											
ENDSUBENT											
SUBENT											
BIB											
REACTION											
STATUS											
ENDBIB											
NOCOMMON											
NODATA											
ENDSUBENT											
ENDENTRY											

Edit on NOCOMMON keyword

**Input of Common Data**

COMMON section

---

Heading :  Search

Units :

Value :

Actions with Columns

Current Position: [SUBENTRY 33080001](#) [No COMMON section](#)



File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering  Use 67-80 Colu

EXFOR file  Wizard  Dummy  Sort  Chart  Order  Check  Checker  Spell Check  Num.Check  X4+ Viewer

Entry N 33080

TITLE | AUTHOR | INSTITUTE | REFERENCE | FACILITY | INC-SOURCE | DETECTOR | SAMPLE | METHOD | ANALYSIS | ERR-ANALYS | REACTION |  
 DECAY-DATA | HALF-LIFE | PART-DET | ADD-RES | MONITOR | MONIT-REF | REL-REF | COMMENT | CRITIQUE | FLAG | STATUS |

SUBENTRY001 | SUBENTRY001-wizard | SUBENTRY | SUBENTRY-wizard | COMMON | DATA | Alteration Flag C | Alteration Flag I | Code A to HISTORY

Column: 12 Row: 24 Total: 45 Insert C:\EXFOREditor\EXFOREditor\33080.exf SUBENTRY 33080001 No COMMON section 33080.exf

INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)
REFERENCE	(J,PR/C,90,064609,2014)
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%) (ERR-2,,14.) Self absorption of gamma-rays (<1%) (ERR-3,,1.) Neutron energy distribution (<1%) (ERR-4,,2.2) Absolute gamma-ray intensity (<2.5%)
HISTORY	(20190926C) VT
ENDBIB	
NOCOMMON	
ENDSUBENT	
SUBENT	
BIB	
REACTION	
SAMPLE	
ERR-ANALYS	
STATUS	
ENDBIB	
NOCOMMON	
NODATA	
ENDSUBENT	
SUBENT	
BIB	
REACTION	
STATUS	
ENDBIB	
NOCOMMON	
NODATA	
ENDSUBENT	

Select the unit of ERROR

Input of Common Data

COMMON section

Heading : ERR-1 - 1st partial uncertainty, defined under ERR-ANALYS

Units : PER-CENT - per-cent

Value : PER-CENT - per-cent

- PRD/FIS - products/fission
- PRD/FIS/SR - products/fission/sr
- PRD/IN/MEV - products per inc. proj. per MeV
- PRD/INC - products/incident projectile
- PRD/INC/SR - products/inc.projectile/steradian
- PRD/MUAHR - products/micro-Ampere-hour
- PRD/MUC/SR - products/micro-Coulomb/sr

OK Cancel Help EXFOR-Help

TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION
DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS	
SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COMMON	DATA	Alteration Flag C	Alteration Flag I	Code A to HISTORY			
INSTITUTE	(3INDIND)	Fergusson College, Pune									
	(3INDPOO)										
REFERENCE	(J,PR/C,90,064609,2014)										
FACILITY	(CCW,3INDPOO)	14 MeV neutron generator									
INC-SOURCE	(D-T)	Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target									
DETECTOR	(HPGE)	To measure gamma-ray activities of the irradiated samples.									
		The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.									
ERR-ANALYS	(ERR-1)	Detector efficiency (~1.5%)									
	(ERR-2,,14.)	Self absorption of gamma-rays (<14%)									
	(ERR-3,,1.)	Neutron energy distribution (<1%)									
	(ERR-4,,2.2)	Absolute gamma-ray intensity (<2.2%)									
HISTORY	(20190926C)	VT									
ENDBIB											
NOCOMMON											
ENDSUBENT											
SUBENT											
BIB											
REACTION											
SAMPLE											
ERR-ANALYS											
STATUS											
ENDBIB											
NOCOMMON											
NODATA											
ENDSUBENT											
SUBENT											
BIB											
REACTION											
STATUS											
ENDBIB											
NOCOMMON											
NODATA											
ENDSUBENT											

Add the value of ERR-1 and press the Add button

Input of Common Data

COMMON section

Heading :	ERR-1 - 1st partial uncertainty. defined under ERR-ANALYS	Search
Units :	PER-CENT - per-cent	
Value :	1.5	

Actions with Columns

Current Position: SUBENTRY 33080001 No COMMON section



INSTITUTE	(3INDIND) Fergusson College, Pune (3INDPOO)
REFERENCE	(J,PR/C,90,064609,2014)
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%) (ERR-2,,14.) Self absorption of gamma-rays (ERR-3,,1.) Neutron energy distribution (< (ERR-4,,2.2) Absolute gamma-ray intensity (<2.2
HISTORY	(20190926C) VT
ENDBIB	
NOCOMMON	

Press the OK button

**Input of Common Data** \_ □ ×

COMMON section

ERR-1
PER-CENT
1.5

Heading :  Search

Units :

Value :

Actions with Columns

Current Position: SUBENTRY 33080001 No COMMON section

INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target				
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.				
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%) (ERR-2,,14.) Self absorption of gamma-rays (<14%) (ERR-3,,1.) Neutron energy distribution (<1%) (ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)				
HISTORY	(20190926C) VT				
ENDBIB					
COMMON	1		3		
ERR-1					
PER-CENT	1.5				
ENDCOMMON					
ENDSUBENT					
SUBENT	33080002	20190926			
BIB					
REACTION					
SAMPLE					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
SUBENT	33080003	20190926			
BIB					
REACTION					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
ENDENTRY					

File Sections Keywords Edit Processing Tools Help

Renummer Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20191031

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 32 Total: 51 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002 BIB section 33080.exf

DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples.		
ERR-ANALYS	(ERR-1) Detector efficiency (ERR-2,,14.) Self-absorption of (ERR-3,,1.) Neutron energy distribution (ERR-4,,2.2) Absolute gamma-ray efficiency (<2.2%)		
HISTORY	(20191031C) VT		
ENDBIB			
COMMON	1	3	
ERR-1			
PER-CENT	1.5		
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002	20191031	
BIB			
REACTION			
SAMPLE			
DECAY-DATA			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			

**Edit the REACTION keyword**

REACTION Edit

**REACTION**

Compress Clear

Pointer: 1 Add

Target nucleus SF1:  Add  
 Incident Particle SF2:  Add  
 Process SF3:  Add  
 Product SF4:  Add  
 Branch SF5:  Add  
 Parameters SF6:  Add  
 Particle Considered SF7:  Add  
 Modifiers SF8:  Add  
 Quantity Code SF5-8:  Add  
 Data Code SF9:  Add

New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

Select target nucleus using search

TITLE	INSTITUTE	PERSONNEL	EXPERIMENTAL SOURCE	DETECTOR	SAMPLE
DETECTOR	(HPGE) To measure gamma-ray				
	irradiated samples.				
	The detection efficiency was measured				
	make Multi Standard MGS-3 gamma-ray source				
ERR-ANALYS	(ERR-1) Detector efficiency				
	(ERR-2,,14.) Self-absorption of gamma-rays				
	(ERR-3,,1.) Neutron energy distribution				
	(ERR-4,,2.2) Absolute gamma-ray intensity				
HISTORY	(20191031C) VT				
ENDBIB					
COMMON	1	3			
ERR-1					
PER-CENT	1.5				
ENDCOMMON					
ENDSUBENT					
SUBENT	33080002	20191031			
BIB					
REACTION					
SAMPLE					
DECAY-DATA					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
SUBENT	33080003	20191031			
BIB					
REACTION					
SAMPLE					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
ENDENTRY					

Target Nucleus (SF1)

Elements:

H 1	He 2
Li 3 Be 4 B 5 C 6 N 7 O 8 F 9	Ne 10
Na 11 Mg 12 Al 13 Si 14 P 15 S 16 Cl 17	Ar 18
K 19 Ca 20 Sc 21 Ti 22 V 23 Cr 24 Mn 25 Fe 26 Co 27 Ni 28	
Cu 29 Zn 30 Ga 31 Ge 32 As 33 Sc 34 Br 35	Kr 36
Rb 37 Sr 38 Y 39 Zr 40 Nb 41 Mo 42 Tc 43 Ru 44 Rh 45 Pd 46	
Ag 47 Cd 48 In 49 Sn 50 Sb 51 Te 52 I 53	Xe 54
Cs 55 Ba 56 La 57 Hf 72 Ta 73 W 74 Re 75 Os 76 Ir 77 Pt 78	
Au 79 Hg 80 Tl 81 Pb 82 Bi 83 Po 84 At 85	Rn 86
Fr 87 Ra 88 Ac 89 Ku 104 Ns 105 106 107	
Ce 58 Pr 59 Nd 60 Pm 61 Sm 62 Eu 63 Gd 64 Tb 65 Dy 66 Ho 67 Er 68 Tm 69 Yb 70 Lu 71	
Th 90 Pa 91 U 92 Np 93 Pu 94 Am 95 Cm 96 Bk 97 Cf 98 Es 99 Fm 100 Md 101 No 102 Lr 103	

Isotopes

- 34-SE-74
- 34-SE-75
- 34-SE-76
- 34-SE-77
- 34-SE-77-M
- 34-SE-78
- 34-SE-79
- 34-SE-79-M
- 34-SE-80

Select

Chemical Compounds

34-SE-CMP - Selenium compo...

Select

ELEM/MASS

Cancel

REACTION Edit

REACTION

Compress Clear

Pointer: 1 Add

New Record

Target nucleus	SF1:		Add
Incident Particle	SF2:		Add
Process	SF3:		Add
Product	SF4:		Add
Branch	SF5:		Add
Parameters	SF6:		Add
Particle Considered	SF7:		Add
Modifiers	SF8:		Add
Quantity Code	SF5-8:		Add
Data Code	SF9:		Add

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy
 Sort Chart
 Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set
 Entry Date: 20191031

TITLE | AUTHOR | INSTITUTE | REFERENCE | FACILITY | INC-SOURCE | DETECTOR | SAMPLE | METHOD | ANALYSIS | ERR-ANALYS | REACTION | CURRENT EDIT | EN

DECAY-DATA | HALF-LIFE | PART-DET | ADD-RES | MONITOR | MONIT-REF | REL-REF | COMMENT | CRITIQUE | FLAG | STATUS | REACTION (New)

SUBENTRY001 | SUBENTRY001-wizard | SUBENTRY | SUBENTRY-wizard | COMMON | DATA | Alteration Flag C | Alteration Flag I | Code A to HISTORY

Column: 12 Row: 32 Total: 51 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002 BIB section 33080.exf

DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples.		
	The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.		
ERR-ANALYS	(ERR-1) Detector efficiency		(~1.5%)
	(ERR-2,,14.) Self-absorption of gamma-rays		(<14%)
	(ERR-3,,1.) Neutron energy distribution		(<1%)
	(ERR-4,,2.2) Absolute gamma-ray intensity		(<2.2%)
HISTORY	(20191031C) VT		
ENDBIB			
COMMON	1	3	
ERR-1			
PER-CENT			1.5
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002	20191031	
BIB			
REACTION			
SAMPLE			
DECAY-DATA			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			

REACTION Edit

REACTION

Compress Clear

Pointer: 1 Add

Target nucleus SF1: 34-SE-78 Add

Incident Particle SF2: Add

Process SF3: Add

Product SF4: Add

Branch SF5: Add

Parameters SF6: Add

Particle Considered SF7: Add

Modifiers SF8: Add

Quantity Code SF5-8: Add

Data Code SF9: Add

New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples.		
	The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.		
ERR-ANALYS	(ERR-1) Detector efficiency		(~1.5%)
	(ERR-2,,14.) Self-absorption of gamma-rays		(<14%)
	(ERR-3,,1.) Neutron energy distribution		(<1%)
	(ERR-4,,2.2) Absolute gamma-ray intensity		(<2.2%)
HISTORY	(20191031C) VT		
ENDBIB			
COMMON	1	3	
ERR-1			
PER-CENT	1.5		
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002	20191031	
BIB			
REACTION			
SAMPLE			
DECAY-DATA			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			

Select incident particle used in experiment

REACTION Edit

REACTION

Compress Clear

Pointer: 1 Add

Target nucleus	SF1:	34-SE-78	Add
Incident Particle	SF2:	N - Neutrons	Add
Process	SF3:	ETA - Eta mesons	Add
Product	SF4:	G - Gammas	Add
Branch	SF5:	HE3 - He-3	Add
Parameters	SF6:	K0 - Kaons,neutral	Add
Particle Considered	SF7:	KN - Kaons,negative	Add
Modifiers	SF8:	KP - Kaons,positive	Add
Quantity Code	SF5-8:	N - Neutrons	Add
Data Code	SF9:	P - Protons	Add
		PI0 - Pions,neutral	Add
		PIN - Pions,negative	Add
		PIP - Pions,positive	Add
		T - Tritons	Add

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help



File Sections Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy    Sort Chart    Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set    Entry Date: 20191031

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT EN

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 32 Total: 51 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002 BIB section 33080.exf

DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples.		
	The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.		
ERR-ANALYS	(ERR-1) Detector efficiency		(~1.5%)
	(ERR-2,,14.) Self-absorption of gamma-rays		(<14%)
	(ERR-3,,1.) Neutron energy distribution		(<1%)
	(ERR-4,,2.2) Absolute gamma-ray intensity		(<2.2%)
HISTORY	(20191031C) VT		
ENDBIB			
COMMON		1	3
ERR-1			
PER-CENT			1.5
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002	20191031	
BIB			
REACTION			
SAMPLE			
DECAY-DATA			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			

Select process used

REACTION Edit

REACTION

Compress Clear

Pointer: 1 Add

Target nucleus	SF1:	34-SE-78	Add
Incident Particle	SF2:	N - Neutrons	Add
Process	SF3:	P - Protons	Add
Product	SF4:	P - Protons	Add
Branch	SF5:	PAI - Pair production	Add
Parameters	SF6:	PI - Pions,unspecified	Add
Particle Considered	SF7:	PI0 - Pions,neutral	Add
Modifiers	SF8:	PIN - Pions,negative	Add
Quantity Code	SF5-8:	PIP - Pions,positive	Add
Data Code	SF9:	SCT - Total scattering (elastic + inelastic)	Add
		T - Tritons	Add
		TCC - Total charge changing	Add
		THS - Thermal neutron scattering	Add
		TOT - Total	Add
		X - Process unspecified	Add

Current Position

OK Cancel Help EXFOR-Help

Renumber Subentries before Ordering  Use 67-80 Columns  
 Entry Number: 33080 Set Entry Date: 20191031 Set

TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE
DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF
SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COM	
Column: 12	Row: 32	Total: 51	Insert	C:\EXFOR3.4\EXFOREditor3.4\33080.exf	
DETECTOR	(HPGE) To measure gamma-ray activities of irradiated samples. The detection efficiency was measured with make Multi Standard MGS-3 gamma-ray source				
ERR-ANALYS	(ERR-1) Detector efficiency (ERR-2,,14.) Self-absorption of gamma-rays (ERR-3,,1.) Neutron energy distribution (ERR-4,,2.2) Absolute gamma-ray intensity				
HISTORY	(20191031C) VT				

Reaction Product (SF4)

Elements

H 1	He 2
Li 3 Be 4 B 5 C 6 N 7 O 8 F 9	Ne 10
Na 11 Mg 12 Al 13 Si 14 P 15 S 16 Cl 17	Ar 18
K 19 Ca 20 Sc 21 Ti 22 V 23 Cr 24 Mn 25 Fe 26 Co 27 Ni 28	Kr 36
Cu 29 Zn 30 Ga 31 Ge 32 As 33 Se 34 Br 35	Xe 54
Rb 37 Sr 38 Y 39 Zr 40 Nb 41 Mo 42 Tc 43 Ru 44 Rh 45 Pd 46	Ru 86
Ag 47 Cd 48 In 49 Sn 50 Sb 51 Te 52 I 53	
Cs 55 Ba 56 La 57 Hf 72 Ta 73 W 74 Re 75 Os 76 Ir 77 Pt 78	
Au 79 Hg 80 Tl 81 Pb 82 Bi 83 Po 84 At 85	
Fr 87 Ra 88 Ac 89 Ku 104 Ns 105 106 107	
Ce 58 Pr 59 Nd 60 Pm 61 Sm 62 Eu 63 Gd 64 Tb 65 Dy 66 Ho 67 Er 68 Tm 69 Yb 70 Lu 71	
Th 90 Pa 91 U 92 Np 93 Pu 94 Am 95 Cm 96 Bk 97 Cf 98 Es 99 Fm 100 Md 101 No 102 Lr 103	

Isotopes

- 33-AS-75-M
- 33-AS-76
- 33-AS-77
- 33-AS-78
- 33-AS-79
- 33-AS-80
- 33-AS-81
- 33-AS-82
- 33-AS-82-M

Chemical Compounds

- 33-AS-CMP - Arsenic compound
- 33-AS-OXI - Arsenic oxide

Select

Select

ELEM/MASS ELEM  
MASS NPART

Cancel

Select the reaction product using search option

1 Add New Record

Target nucleus SF1:  Add

Incident Particle SF2: N - Neutrons Add

Process SF3: P - Protons Add

Product SF4:  Add

Branch SF5:  Add

Parameters SF6:  Add

Particle Considered SF7:  Add

Modifiers SF8:  Add

Quantity Code SF5-8:  Add

Data Code SF9:  Add

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

ENDCOMMON		
ENDSUBENT		
SUBENT	33080002	20191031
BIB		
REACTION		
SAMPLE		
DECAY-DATA		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
SUBENT	33080003	20191031
BIB		
REACTION		
SAMPLE		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
ENDENTRY		



TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION	CURRENT EDIT	ENTRY Title
DECA	DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS	REACTION (New)	
SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COMMON	DATA	Alterati							
Column: 12	Row: 32	Total: 51	Insert	C:\EXFOR3.4\EXFOREditor3.4\33080.exf									
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.												
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%) (ERR-2,,14.) Self-absorption of gamma-rays (<14%) (ERR-3,,1.) Neutron energy distribution (<1%) (ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)												
HISTORY	(20191031C) VT												
ENDBIB													
COMMON	1	3											
ERR-1	1.5												
PER-CENT													
ENDCOMMON													
ENDSUBENT													
SUBENT	33080002	20191031											
BIB													
REACTION													
SAMPLE													
DECA													
STATUS													
ENDBIB													
NOCOMMON													
NODATA													
ENDSUBENT													
SUBENT	33080003	20191031											
BIB													
REACTION													
SAMPLE													
ERR-ANALYS													
STATUS													
ENDBIB													
NOCOMMON													

Select the parameter measured in experiment

REACTION Edit

**REACTION**

Compress Clear

Pointer: 1 Add

Target nucleus SF1: 34-SE-78

Incident Particle SF2: N - Neutrons

Process SF3: P - Protons

Product SF4: 33-AS-78 Add

Branch SF5: Add

Parameters SF6: Add

Particle Considered SF7: Add

Modifiers SF8: Add

Quantity Code SF5-8: Add

Data Code SF9: Add

Find SF6 Parameter

Text to Find Find Select Cancel

- PY/IPA
- RAD
- RI
- RI/SUM
- SCO
- SGV
- SIF
- SIF/TMP
- SIG**
- SIG/DN
- SIG/RAT
- SIG/SUM

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy
 Sort Chart
 Order Check Checker Spell Check Num.Check X4+ Viewer
 Entry Number: 33080 Set
 Entry Date: 20191031 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 32 Total: 51 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf 33080.exf

DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples.	
	The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.	
ERR-ANALYS	(ERR-1) Detector efficiency	(~1.5%)
	(ERR-2,,14.) Self-absorption of gamma-rays	(<14%)
	(ERR-3,,1.) Neutron energy distribution	(<1%)
	(ERR-4,,2.2) Absolute gamma-ray intensity	(<2.2%)
HISTORY	(20191031C) VT	
ENDBIB		
COMMON	1	3
ERR-1		
PER-CENT		1.5
ENDCOMMON		
ENDSUBENT		
SUBENT	33080002	20191031
BIB		
REACTION		
SAMPLE		
DECAY-DATA		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
SUBENT	33080003	20191031
BIB		
REACTION		
SAMPLE		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		



REACTION Edit

**REACTION**

Compress Clear

Pointer: 1 Add
 New Record

Target nucleus	SF1:	34-SE-78	<input type="text"/>	<input type="button" value="Add"/>
Incident Particle	SF2:	N - Neutrons	<input type="text"/>	<input type="button" value="Add"/>
Process	SF3:	P - Protons	<input type="text"/>	<input type="button" value="Add"/>
Product	SF4:	33-AS-78	<input type="text"/>	<input type="button" value="Add"/>
Branch	SF5:		<input type="text"/>	<input type="button" value="Add"/>
Parameters	SF6:	SIG	<input type="text"/>	<input type="button" value="Add"/>
Particle Considered	SF7:		<input type="text"/>	<input type="button" value="Add"/>
Modifiers	SF8:		<input type="text"/>	<input type="button" value="Add"/>
Quantity Code	SF5-8:		<input type="text"/>	<input type="button" value="Add"/>
Data Code	SF9:		<input type="text"/>	<input type="button" value="Add"/>

Current Position: [SUBENTRY 33080002 BIB section](#)

TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION	CURRENT EDIT	ENTRY
DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS	REACTION (New)		
SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COMMON	DATA	Alteration Flag C	Alteration Flag I	Code A to HISTORY					
DETECTOR	(HPGE)	To measure gamma-ray activities of the irradiated samples.											
		The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.											
ERR-ANALYS	(ERR-1)	Detector efficiency								(~1.5%)			
	(ERR-2,,14.)	Self-absorption of gamma-rays								(<14%)			
	(ERR-3,,1.)	Neutron energy distribution								(<1%)			
	(ERR-4,,2.2)	Absolute gamma-ray intensity								(<2.2%)			
HISTORY	(20191031C)	VT											
ENDBIB													
COMMON		1		3									
ERR-1													
PER-CENT		1.5											
ENDCOMMON													
ENDSUBENT													
SUBENT		33080002		20191031									
BIB													
REACTION													
SAMPLE													
DECAY-DATA													
STATUS													
ENDBIB													
NOCOMMON													
NODATA													
ENDSUBENT													
SUBENT		33080003		20191031									
BIB													
REACTION													
SAMPLE													
ERR-ANAL													
STATUS													
ENDBIB													
NOCOMMON													
NODATA													
ENDSUBENT													
ENDENTRY													

**REACTION Edit**

**REACTION** (34-SE-78 (N, P) 33-AS-78,, SIG)

Compress | Clear |

Pointer: 1

Target nucleus	SF1:	34-SE-78	<input type="button" value="Add"/>
Incident Particle	SF2:	N - Neutrons	<input type="button" value="Add"/>
Process	SF3:	P - Protons	<input type="button" value="Add"/>
Product	SF4:	33-AS-78	<input type="button" value="Add"/>
Branch	SF5:		<input type="button" value="Add"/>
Parameters	SF6:	SIG	<input type="button" value="Add"/>
Particle Considered	SF7:		<input type="button" value="Add"/>
Modifiers	SF8:		<input type="button" value="Add"/>
Quantity Code	SF5-8:		<input type="button" value="Add"/>
Data Code	SF9:		<input type="button" value="Add"/>

Current Position: [SUBENTRY 33080002 BIB section](#)

Press the "OK" button

INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target	
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples.	
	The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.	
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%)	
	(ERR-2,,14.) Self absorption of gamma-rays (<14%)	
	(ERR-3,,1.) Neutron energy distribution (<1%)	
	(ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)	
HISTORY	(20190923C) VT	
ENDBIB		
COMMON	1	3
ERR-1		
PER-CENT		
	1.5	
ENDCOMMON		
ENDSUBENT		
SUBENT	33080002	20190923
BIB		
REACTION	(34-SE-78 (N, P) 33-AS-78,, SIG)	
SAMPLE		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
SUBENT	33080003	20190923
BIB		
REACTION		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
ENDENTRY		

File Sections Edit Processing Tools Help

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001 SUBENTRY SUBENTRY COMMON DATA

Column: 12 Row: 33  
33080.exf

**EDIT the SAMPLE keyword and select the Nuclide field using search option**

INC-SOURCE (D-... ~10...  
DETECTOR (HP... irradiated sampl...  
The detection e... with a Canberra  
make Multi Sta... ray source.  
ERR-ANALYS (ERR-1) Detec... (1.5%)  
(ERR-2,,14... of gamma-rays (<14%)  
(ERR-3,,1... y distribution (<1%)  
(ERR-4,,2... gamma-ray intensity (<2.2%)  
HISTORY (20190923...  
ENDBIB  
COMMON 3  
ERR-1  
PER-CENT 1.5  
ENDCOMMON  
ENDSUBENT  
SUBENT 33080002 20190923  
BIB  
REACTION (34-SE-78 (N,P) 33-AS-78,,SIG)  
SAMPLE  
ERR-ANALYS Target Description  
STATUS SAMPLE:  
ENDBIB  
NOCOMMON  
NODATA  
ENDSUBENT  
SUBENT  
BIB  
REACTION  
STATUS  
ENDBIB  
NOCOMMON  
NODATA  
ENDSUBENT  
ENDENTRY

Nuclide Field

Elements

H	1																	He	2								
Li	3	Be	4	B	5	C	6	N	7	O	8	F	9					Ne	10								
Na	11	Mg	12	Al	13	Si	14	P	15	S	16	Cl	17					Ar	18								
K	19	Ca	20	Sc	21	Ti	22	V	23	Cr	24	Mn	25	Fe	26	Co	27	Ni	28								
Cu	29	Zn	30	Ga	31	Ge	32	As	33	Se	34	Br	35					Kr	36								
Rb	37	Sr	38	Y	39	Zr	40	Nb	41	Mo	42	Tc	43	Ru	44	Rh	45	Pd	46								
Ag	47	Cd	48	In	49	Sn	50	Sb	51	Te	52	I	53					Xe	54								
Cs	55	Ba	56	La	57	Hf	72	Ta	73	W	74	Re	75	Os	76	Ir	77	Pt	78								
Au	79	Hg	80	Tl	81	Pb	82	Bi	83	Po	84	At	85					Rn	86								
Fr	87	Ra	88	Ac	89	Ku	104	Ns	105	106	107																
Ce	58	Pr	59	Nd	60	Pm	61	Sm	62	Eu	63	Gd	64	Tb	65	Dy	66	Ho	67	Er	68	Tm	69	Yb	70	Lu	71
Th	90	Pa	91	U	92	Np	93	Pu	94	Am	95	Cm	96	Bk	97	Cf	98	Es	99	Fm	100	Md	101	No	102	Lr	103

Isotopes

- 34-SE-73-M
- 34-SE-74
- 34-SE-75
- 34-SE-76
- 34-SE-77
- 34-SE-77-M
- 34-SE-78
- 34-SE-79
- 34-SE-79-M

Select

Cancel

Target Description

STATUS SAMPLE:

ENDBIB

NOCOMMON

NODATA

ENDSUBENT

SUBENT

BIB

REACTION

STATUS

ENDBIB

NOCOMMON

NODATA

ENDSUBENT

ENDENTRY

Spell Checking

Compress Clear

Data Modifier = RAB (SF8 under REACTION Keyword)

Nuclide Field

Abundance Field

NAT= Add New Record

Current Position: SUBENTRY 33080002 BIB section

OK Cancel Help EXFOR-Help

INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target		
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.		
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%) (ERR-2,,14.) Self absorption of gamma-rays (<14%) (ERR-3,,1.) Neutron energy distribution (<1%) (ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)		
HISTORY	(20190923C) VT		
ENDBIB			
COMMON	1	3	
ERR-1			
PER-CENT	1.5		
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002	20190923	
BIB			
REACTION	(34-SE-78 (N,P) 33-AS-78,, SIG)		
SAMPLE			

Target Description

**SAMPLE:**

Spell Checking  
Compress Clear

Data Modifier = RAB (SF8 under REACTION Keyword)

Nuclide Field  
34-SE-78 Search Add

Abundance Field  
NAT= Add New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

File Sections Keywords Edit Processing Tools Help

Renummer Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set      Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 33 Total: 49 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080002 BIB section

INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target	
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.	
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%) (ERR-2,,14.) Self absorption of gamma-rays (<14%) (ERR-3,,1.) Neutron energy distribution (<1%) (ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)	
HISTORY	(20190923C) VT	
ENDBIB		
COMMON	1	3
ERR-1		
PER-CENT	1.5	
ENDCOMMON		
ENDSUBENT		
SUBENT	33080002	20190923
BIB		
REACTION	(34-SE-78 (N, P) 33-AS-78,, SIG)	
SAMPLE		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
SUBENT		
BIB		
REACTION		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
ENDENTRY		

If provided in the paper, Add the abundance value and press the "New Record" button

**Target Description** [X]

**SAMPLE:**

Spell Checking [Compress] [Clear]

Data Modifier = RAB (SF8 under REACTION Keyword)

Nuclide Field: 34-SE-78 [Search] [Add]

Abundance Field: NAT= [0.2377] [Add] **New Record**

Current Position: [SUBENTRY 33080002 BIB section](#)

[OK] [Cancel] [Help] [EXFOR-Help]



INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target			
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.			
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%) (ERR-2,,14.) Self absorption of gamma-rays (<14%) (ERR-3,,1.) Neutron energy distribution (<1%) (ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)			
HISTORY	(20190923C) VT			
ENDBIB				
COMMON	1 3			
ERR-1				
PER-CENT	1.5			
ENDCOMMON				
ENDSUBENT				
SUBENT	33080002 20190923			
BIB				
REACTION	(34-SE-78 (N, P) 33-AS-78,, SIG)			
SAMPLE				

Add the free text information about the SAMPLE

ERR-ANALYS	<div style="border: 1px solid gray; padding: 5px;"> <p><b>Target Description</b> [X]</p> <p><b>SAMPLE:</b> (34-SE-78,NAT=0.2377) Natural SeO2 (purity of 99.99%) powder</p> <p>Spell Checking Compress Clear</p> <p>Data Modifier = RAB (SF8 under REACTION Keyword)</p> <p>Nuclide Field: <input type="text"/> Search Add</p> <p>Abundance Field: <b>NAT=</b> <input type="text"/> Add New Record</p> <p>Current Position: <a href="#">SUBENTRY 33080002 BIB section</a></p> <p>OK Cancel Help EXFOR-Help</p> </div>		
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT			
BIB			
REACTION			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%) (ERR-2,,14.) Self absorption of gamma-rays (<14%) (ERR-3,,1.) Neutron energy distribution (<1%) (ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)
HISTORY	(20190923C) VT
ENDBIB	
COMMON	1 3
ERR-1	
PER-CENT	1.5
ENDCOMMON	
ENDSUBENT	
SUBENT	33080002 20190923
BIB	
REACTION	(34-SE-78 (N,P) 33-AS-78,,SIG)
SAMPLE	

Select the Monitor SAMPLE using search option

Nuclide Field

Elements

H 1	He 2
Li 3 Be 4 B 5 C 6 N 7 O 8 F 9	Ne 10
Na 11 Mg 12 Al 13 Si 14 P 15 S 16 Cl 17	Ar 18
K 19 Ca 20 Sc 21 Ti 22 V 23 Cr 24 Mn 25 Fe 26 Co 27 Ni 28	Kr 36
Cu 29 Zn 30 Ga 31 Ge 32 As 33 Sc 34 Br 35	Xe 54
Rb 37 Sr 38 Y 39 Zr 40 Nb 41 Mo 42 Tc 43 Ru 44 Rh 45 Pd 46	Ru 86
Ag 47 Cd 48 In 49 Sn 50 Sb 51 Te 52 I 53	
Cs 55 Ba 56 La 57 Hf 72 Ta 73 W 74 Re 75 Os 76 Ir 77 Pt 78	
Au 79 Hg 80 Tl 81 Pb 82 Bi 83 Po 84 At 85	
Fr 87 Ra 88 Ac 89 Ku 104 Ns 105 106 107	
Ce 58 Pr 59 Nd 60 Pm 61 Sm 62 Eu 63 Gd 64 Tb 65 Dy 66 Ho 67 Er 68 Tm 69 Yb 70 Lu 71	
Th 90 Pa 91 U 92 Np 93 Pu 94 Am 95 Cm 96 Bk 97 Cf 98 Es 99 Fm 100 Md 101 No 102 Lr 103	

Isotopes

- 26-FE-52-M
- 26-FE-53
- 26-FE-53-M
- 26-FE-54
- 26-FE-55
- 26-FE-56
- 26-FE-57
- 26-FE-58
- 26-FE-59

Select

Cancel

Target Description

**SAMPLE:** (34-SE-78,NAT=0.2377)  
Natural SeO2 (purity of 99.99%) powder

Spell Checking  
Compress Clear

Data Modifier = RAB (SF8 under REACTION Keyword)

Nuclide Field

Abundance Field  
NAT= Add New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy
 Sort Chart
 Order Check Checker Spell Check Num.Check X4+ Viewer
 Entry Number: 33080 Set
 Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 33 Total: 49 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080002 BIB section 33080.exf

INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target		
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.		
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%) (ERR-2,,14.) Self absorption of gamma-rays (<...) (ERR-3,,1.) Neutron energy distribution (<1%...) (ERR-4,,2.2) Absolute gamma-ray intensity (<...)		
HISTORY	(20190923C) VT		
ENDBIB			
COMMON	1 3		
ERR-1			
PER-CENT	1.5		
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002 20190923		
BIB			
REACTION	(34-SE-78 (N, P) 33-AS-78,, SIG)		
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT			
BIB			
REACTION			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Add abundance value if provided in paper and press new record

Target Description

**SAMPLE:** (34-SE-78, NAT=0.2377)  
Natural SeO2 (purity 99.99%) powder

Spell Checking Compress Clear

Data Modifier = RAB (SF8 under REACTION keyword)

Nuclide Field: 26-FE-56 Search Add

Abundance Field: NAT= 0.9175 Add

**New Record**

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 33 Total: 49 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080002 BIB section 33080.exf

INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target			
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples. The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.			
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%) (ERR-2,,14.) Self absorption of gamma-rays (<14%) (ERR-3,,1.) Neutron energy distribution (<1%) (ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)			
HISTORY	(20190923C) VT			
ENDBIB				
COMMON	1	3		
ERR-1	1.5			
PER-CENT				
ENDCOMMON				
ENDSUBENT				
SUBENT	33080002	20190923		
BIB				
REACTION	(34-SE-78 (N, P) 33-AS-78,, SIG)			
SAMPLE				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDSUBENT				
SUBENT				
BIB				
REACTION				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDSUBENT				
ENDENTRY				

Free text information is added about the SAMPLE

Target Description

**SAMPLE:** (34-SE-78,NAT=0.2377)  
Natural SeO2 (purity of 99.99%) powder  
(26-FE-56,NAT=0.9175)  
Natural Fe (purity of 99.99%) powder

Spell Checking Compress Clear

Data Modifier = RAB (SF8 under REACTION Keyword)

Nuclide Field:  Search Add

Abundance Field: NAT=  Add New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

COMMON	1	3		
ERR-1				
PRD/REAC				
1.5				
ENDCOMMON				
ENDSUBENT				
SUBENT	33080002	20190705		
BIB				
REACTION	(34-SE-78 (N,P) 33-AS-78,,SIG)			
SAMPLE	(34-SE-78,NAT=0.2377)			
	Natural SeO2 (purity of 99.99%) powder			
	(26-FE-56,NAT=0.9175)			
	Natural Fe (purity of 99.99%) powder			
DECAY-DATA				
MONITOR				
DECAY-MON				
MONIT-REF				
METHOD				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDDATA				
ENDSUBENT				
SUBENT	33080003	20190705		
BIB				
REACTION				
SAMPLE				
DECAY-DATA				
MONITOR				
DECAY-MON				
MONIT-REF				
METHOD				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				

**EDIT the DECAY-DATA keyword**

PER-CENT										
1.5										
ENDCOMMON										
ENDSUBENT										
SUBENT	33080002	20190923								
BIB										
REACTION	(34-SE-78 (N, P) 33-AS-78 (N, S))									
SAMPLE	(34-SE-78, NAT=0.233)									
	Natural SeO2 (purity of 99.99%) powder									
	(26-FE-56, NAT=0.9175)									
	Natural Fe (purity of 99.99%) powder									
DECAY-DATA										
MONITOR										
DECAY-MON										
MONIT-REF										
METHOD										
ERR-ANALYS										
STATUS										
ENDBIB										
NOCOMMON										
NODATA										
ENDSUBENT										
SUBENT	33080003	20190923								
BIB										
REACTION										
DECAY-DATA										
MONITOR										
DECAY-MON										
MONIT-REF										
METHOD										
ERR-ANALYS										
STATUS										
ENDBIB										
NOCOMMON										
NODATA										
ENDSUBENT										
ENDENTRY										

**Decay Data Description**

**DECAY-DATA**

Spell Checking Compress Clear

Flag  Use Flag Flag Value: 1 Add

Nuclide Field  Search Add

Half-Life Field Number:  Unit:  Add

Radiation Field SF1. Type of Radiation:  Search Add SF2. Energy:  Add SF3. Abundance:  Add

New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help





PER-CENT					
1.5					
ENDCOMMON					
ENDSUBENT					
SUBENT	33080002	20190923			
BIB					
REACTION	(34-SE-78 (N,P) 33-AS-78,,SIG)				
SAMPLE	(34-SE-78,NAT=0.2377)				
	Natural SeO2 (purity of 99.99%) powder				
	(26-FE-56,NAT=0.9175)				
	Natural Fe (purity of 99.99%) powder				
DECAY-DATA					
MONITOR					
DECAY-MON					
MONIT-REF					
METHOD					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
SUBENT	33080003	20190923			
BIB					
REACTION					
DECAY-DATA					
MONITOR					
DECAY-MON					
MONIT-REF					
METHOD					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
ENDENTRY					

Add half-life value and select the unit

**Decay Data Description** X

**DECAY-DATA**

---

Flag      Use Flag     Flag Value:

Nuclide Field

Half-Life Field  
 Number:      Unit:

Radiation Field  
 SF1. Type of Radiation:

- MICROSEC - microseconds
- MIN - minutes
- MSEC - milliseconds
- NSEC - nanoseconds
- D - days
- FSEC - femtoseconds
- HR - hours
- PSEC - picoseconds
- SEC - seconds
- YR - years (=365.2422 Days)

**record**

Current Position: [SUBENTRY 33080002 BIB section](#)

PER-CENT										
	1.5									
ENDCOMMON										
ENDSUBENT										
SUBENT	33080002	20190923								
BIB										
REACTION	(34-SE-78 (N, P) 33-AS-78, , SIG)									
SAMPLE	(34-SE-78, NAT=0.2377)									
	Natural SeO2 (purity of 99.99%) powder									
	(26-FE-56, NAT=0.9175)									
	Natural Fe (purity of 99.99%) powder									
DECAY-DATA										
MONITOR										
DECAY-MON										
MONIT-REF										
METHOD										
ERR-ANALYS										
STATUS										
ENDBIB										
NOCOMMON										
NODATA										
ENDSUBENT										
SUBENT	33080003	20190923								
BIB										
REACTION										
DECAY-DATA										
MONITOR										
DECAY-MON										
MONIT-REF										
METHOD										
ERR-ANALYS										
STATUS										
ENDBIB										
NOCOMMON										
NODATA										
ENDSUBENT										
ENDENTRY										

Select the type of radiation

**Decay Data Description** [Close]

**DECAY-DATA**

Spell Checking  
Compress Clear

Flag  
 Use Flag Flag Value: 1 Add

Nuclide Field  
33-AS-78 Search Add

Half-Life Field  
Number: 90.7 Unit: MIN - minutes Add

Radiation Field

SF1. Type of Radiation DG - Decay Gammas	SF2. Energy Add	SF3. Abundance Add
---	--------------------	-----------------------

New Record

002 BIB section

EXFOR-Help

- DG - Decay Gammas
- DN - Delayed Neutrons
- E - Electrons
- EC - Electron Capture
- ER - Evaporation Residues
- ETA - Eta mesons
- FF - Fission Fragments
- G - Gammas
- HE2 - He-2
- HE3 - He-3
- HF - Heavy Fragment
- ICE - Internal-Conversion Electrons

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 37 Total: 63 Insert C:\exfdata-201610\EXFOReditor30\33080.exf SUBENTRY 33080002 BIB section 33080.exf

PER-CENT		
1.5		
ENDCOMMON		
ENDSUBENT		
SUBENT	33080002	20190923
BIB		
REACTION	(34-SE-78 (N, P) 33-AS-78, , SIG)	
SAMPLE	(34-SE-78, NAT=0.2377)	
	Natural SeO2 (purity of 99.99%) powder	
	(26-FE-56, NAT=0.9175)	
	Natural Fe (purity of 99.99%) powder	
DECAY-DATA		
MONITOR		
DECAY-MON		
MONIT-REF		
METHOD		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
SUBENT	33080003	20190923
BIB		
REACTION		
DECAY-DATA		
MONITOR		
DECAY-MON		
MONIT-REF		
METHOD		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
ENDENTRY		

- Add energy value (keV) and abundance value.
- Press new record button

Decay Data Description

DECAY-DATA

Spell Checking Compress Clear

Flag  Use Flag Flag Value: 1 Add

Nuclide Field: 33-AS-78 Search Add

Half-Life Field: Number: 90.7 Unit: MIN - minutes Add

Radiation Field

SF1. Type of Radiation: DG - Decay Gammas Search Add

SF2. Energy: 614 Add

SF3. Abundance: 0.54 Add

New Record

Current Position: SUBENTRY 33080002 BIB section

OK Cancel Help EXFOR-Help

TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION	CURRENT EDIT	ENTRY
DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS			
SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COMMON	DATA	Alteration Flag C	Alteration Flag I	Code A to HISTORY					
PER-CENT	1.5												
ENDCOMMON													
ENDSUBENT													
SUBENT	33080002	20190923											
BIB													
REACTION	(34-SE-78 (N, P) 33-AS-78, , , SIG)												
SAMPLE	(34-SE-78, NAT=0.2377)												
	Natural SeO2 (purity of 99.99%) powder												
	(26-FE-56, NAT=0.9175)												
	Natural Fe (purity of 99.99%) powder												
DECAY-DATA													
MONITOR													
DECAY-MON													
MONIT-REF													
METHOD													
ERR-ANALYS													
STATUS													
ENDBIB													
NOCOMMON													
NODATA													
ENDSUBENT													
SUBENT	33080003	20190923											
BIB													
REACTION													
DECAY-DATA													
MONITOR													
DECAY-MON													
MONIT-REF													
METHOD													
ERR-ANALYS													
STATUS													
ENDBIB													
NOCOMMON													
NODATA													
ENDSUBENT													
ENDENTRY													

**Decay Data Description**

**DECAY-DATA** (33-AS-78, 90.7MIN, DG, 614., 0.54)

Spell Checking  Compress

Flag  Use Flag Flag Value: 1 Add

Nuclide Field  Search Add

Half-Life Field Number:  Unit:  Add

Radiation Field

SF1. Type of Radiation: <input type="text"/> Search Add	SF2. Energy: <input type="text"/> Add	SF3. Abundance: <input type="text"/> Add	Add
---	---------------------------------------	--	-----

New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

PER-CENT

1.5

ENDCOMMON

ENDSUBENT

SUBENT 33080002 20190923

BIB

REACTION (34-SE-78 (N,P) 33-AS-78,, SIG)

SAMPLE (34-SE-78,NAT=0.2377)

Natural SeO2 (purity of 99.99%) powder

(26-FE-56,NAT=0.9175)

Natural Fe (purity of 99.99%) powder

DECAY-DATA (33-AS-78,90.7MIN,DG,614.,0.54)

MONITOR

DECAY-MON

MONIT-REF

METHOD

ERR-ANALYS

STATUS

ENDBIB

NOCOMMON

NODATA

ENDSUBENT

SUBENT 33080003 20190923

BIB

REACTION

DECAY-DATA

MONITOR

DECAY-MON

MONIT-REF

METHOD

ERR-ANALYS

STATUS

ENDBIB

NOCOMMON

NODATA

ENDSUBENT

ENDENTRY

File Sections Keywords Edit Processing Tools Help

Renum Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer
 Entry Number: 33080 Set
 Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION SUBENT EDIT ENTRY TITLE

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STA

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code

Column: 12 Row: 38 Total: 63 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080002 BIB section 33080.exf

PER-CENT			
1.5			
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002	20190923	
BIB			
REACTION	(34-SE-78 (N,P) 33-AS-78,, SIG)		
SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION			
DECAY-DATA			
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

EDIT the MONITOR keyword

Standard Reference Data (Monitor)

**MONITOR**

Spell Checking Compress Clear

Options

Use Pointer

Use Heading Field

Only Free Text

Reaction Field

Reaction Field SF1 - SF4

Target Nucleus  Search Add

Incident Particle  Search Add

Process  Search Add

Reaction Product  Search Add

Quantity field SF5 - SF8

Branch  Search Add

Parameter  Search Add

Particle Considered  Search Add

Modifier  Search Add

All Quantity Fields  Search Add

Data Type SF9  Add

Monitor Code New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

Select the target nucleus using search option

Column: 12 Row: 38 Total: 63 Insert C:\exfdata-201610\EXFOREditor30\33080.exf 33080.exf

PER-CENT			
1.5			
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002	20190923	
BIB			
REACTION	(34-SE-78(N,P)33-AS-78,,SIG)		
SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
	(33-AS-78,90.7MIN,DG,614.,0.54)		
DECAY-DATA			
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION			
DECAY-DATA			
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Target

Elements

H 1	He 2
Li 3 Be 4 B 5 C 6 N 7 O 8 F 9	Ne 10
Na 11 Mg 12 Al 13 Si 14 P 15 S 16 Cl 17	Ar 18
K 19 Ca 20 Sc 21 Ti 22 V 23 Cr 24 Mn 25 Fe 26 Co 27 Ni 28	
Cu 29 Zn 30 Ga 31 Ge 32 As 33 Se 34 Br 35	Kr 36
Rb 37 Sr 38 Y 39 Zr 40 Nb 41 Mo 42 Tc 43 Ru 44 Rh 45 Pd 46	
Ag 47 Cd 48 In 49 Sn 50 Sb 51 Te 52 I 53	Xe 54
Cs 55 Ba 56 La 57 Hf 72 Ta 73 W 74 Re 75 Os 76 Ir 77 Pt 78	Ru 86
Au 79 Hg 80 Tl 81 Pb 82 Bi 83 Po 84 At 85	
Fr 87 Ra 88 Ac 89 Ku 104 Ns 105 106 107	
Ce 58 Pr 59 Nd 60 Pm 61 Sm 62 Eu 63 Gd 64 Tb 65 Dy 66 Ho 67 Er 68 Tm 69 Yb 70 Lu 71	
Th 90 Pa 91 U 92 Np 93 Pu 94 Am 95 Cm 96 Bk 97 Cf 98 Es 99 Fm 100 Md101 No102 Lr103	

Particles 0

Isotopes

- 26-FE-52-M
- 26-FE-53
- 26-FE-53-M
- 26-FE-54
- 26-FE-55
- 26-FE-56**
- 26-FE-57
- 26-FE-58
- 26-FE-59

Chemical Compounds

- 26-FE-CMP - Iron compound
- 26-FE-OXI - Iron oxide

Select

ELEM/MASS

Cancel

Standard Reference Data

MONITOR

Spell Checking

Compress Clear

Options

- Use Pointer
- Use Heading Field
- Only Free Text

Reaction Field

Reaction Field SF1 - SF4

Target Nucleus

Parameter

Search Add

Particle Considered

Search Add

Modifier

Search Add

All Quantity Fields

Search Add

Data Type SF9

Add

Monitor Code

New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help



File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 38 Total: 63 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080002 BIB section 33080.exf

PER-CENT			
1.5			
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002	20190923	
BIB			
REACTION	(34-SE-78 (N,P) 33-AS-78,,SIG)		
SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION			
DECAY-DATA			
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Select the incident particle

Standard Reference Data (Monitor)

**MONITOR**

Spell Checking Compress Clear

Options

Use Pointer

Use Heading Field

Only Free Text

Reaction Field

Reaction Field SF1 - SF4

Target Nucleus

26-FE-56 Search Add

Incident Particle

- N - Neutrons
- N - Neutrons
- P - Protons
- PI0 - Pions,neutral
- PIN - Pions,negative
- PIP - Pions,positive
- T - Tritons
- 1-H-0 - Natural hydrogen
- 1-H-1
- 1-H-2
- 1-H-3
- 1-H-4
- 1-H-5

Quantity field SF5 - SF8

Branch Search Add

Parameter Search Add

Particle Considered Search Add

Modifier Search Add

All Quantity Fields Search Add

Data Type SF9 Add

Monitor Code New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 38 Total: 63 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080002 BIB section 33080.exf

PER-CENT		
1.5		
ENDCOMMON		
ENDSUBENT		
SUBENT	33080002	20190923
BIB		
REACTION	(34-SE-78 (N,P) 33-AS-78,, SIG)	
SAMPLE	(34-SE-78,NAT=0.2377)	
	Natural SeO2 (purity of 99.99%) powder	
	(26-FE-56,NAT=0.9175)	
	Natural Fe (purity of 99.99%) powder	
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)	
MONITOR		
DECAY-MON		
MONIT-REF		
METHOD		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
SUBENT	33080003	20190923
BIB		
REACTION		
DECAY-DATA		
MONITOR		
DECAY-MON		
MONIT-REF		
METHOD		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
ENDENTRY		

Standard Reference Data (Monitor)

**MONITOR**

Spell Checking Compress Clear

Options

- Use Pointer
- Use Heading Field
- Only Free Text

Reaction Field

Reaction Field SF1 - SF4

Target Nucleus

26-FE-56 Search Add

Incident Particle

N - Neutron Search Add

Process

P - Protons Search Add

Reaction Product

Search Add

Quantity field SF5 - SF8

Branch Search Add

Parameter Search Add

Particle Considered Search Add

Modifier Search Add

All Quantity Fields Search Add

Data Type SF9 Add

Monitor Code

New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

Select the process



Select the Reaction Product using search option

PER-CENT	1.5
ENDCOMMON	
ENDSUBENT	
SUBENT	33080002 20190923
BIB	
REACTION	(34-SE-78 (N,P)33-AS-78,,SIG)
SAMPLE	(34-SE-78,NAT=0.2377)
	Natural SeO2 (purity of 99.99%) powder
	(26-FE-56,NAT=0.9175)
	Natural Fe (purity of 99.99%) powder
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)
MONITOR	
DECAY-MON	
MONIT-REF	
METHOD	
ERR-ANALYS	
STATUS	
ENDBIB	
NOCOMMON	
NODATA	
ENDSUBENT	
SUBENT	33080003 20190923
BIB	
REACTION	
DECAY-DATA	
MONITOR	
DECAY-MON	
MONIT-REF	
METHOD	
ERR-ANALYS	
STATUS	
ENDBIB	
NOCOMMON	
NODATA	
ENDSUBENT	
ENDENTRY	

Standard Reference Data (Monitor)

**MONITOR**

Spell Checking  
Compress Clear

Options

Use Pointer

Use Heading Field

Only Free Text

Reaction Field

Reaction Field SF1 - SF4

Target Nucleus

26-FE-56 Search

Incident Particle

N - Neutrons Search

Process

P - Protons Search Add

Reaction Product

Search Add

Reaction Product

Elements

H 1	He 2																
Li 3	Be 4	B 5	C 6	N 7	O 8	F 9	Ne 10										
Na 11	Mg 12	Al 13	Si 14	P 15	S 16	Cl 17	Ar 18										
K 19	Ca 20	Sc 21	Ti 22	V 23	Cr 24	Mn 25	Fe 26	Co 27	Ni 28	Kr 36							
Cu 29	Zn 30	Ga 31	Ge 32	As 33	Sc 34	Br 35	Rb 37	Sr 38	Y 39	Zr 40	Nb 41	Mo 42	Tc 43	Ru 44	Rh 45	Pd 46	Kr 36
Ag 47	Cd 48	In 49	Sn 50	Sb 51	Te 52	I 53	Cs 55	Ba 56	La 57	Hf 72	Ta 73	W 74	Re 75	Os 76	Ir 77	Pt 78	Xe 54
Au 79	Hg 80	Tl 81	Pb 82	Bi 83	Po 84	At 85	Fr 87	Ra 88	Ac 89	Ku 104	Ns 105	106	107	Ru 86			
Ce 58	Pr 59	Nd 60	Pm 61	Sm 62	Eu 63	Gd 64	Tb 65	Dy 66	Ho 67	Er 68	Tm 69	Yb 70	Lu 71				
Th 90	Pa 91	U 92	Np 93	Pu 94	Am 95	Cm 96	Bk 97	Cf 98	Es 99	Fm 100	Md 101	No 102	Lr 103				

Particles 0

Isotopes

- 25-MN-52
- 25-MN-52-M
- 25-MN-53
- 25-MN-54
- 25-MN-55
- 25-MN-56
- 25-MN-57
- 25-MN-58
- 25-MN-58-M

Select

Chemical Compounds

- 25-MN-CMP - Manganese co...

Select

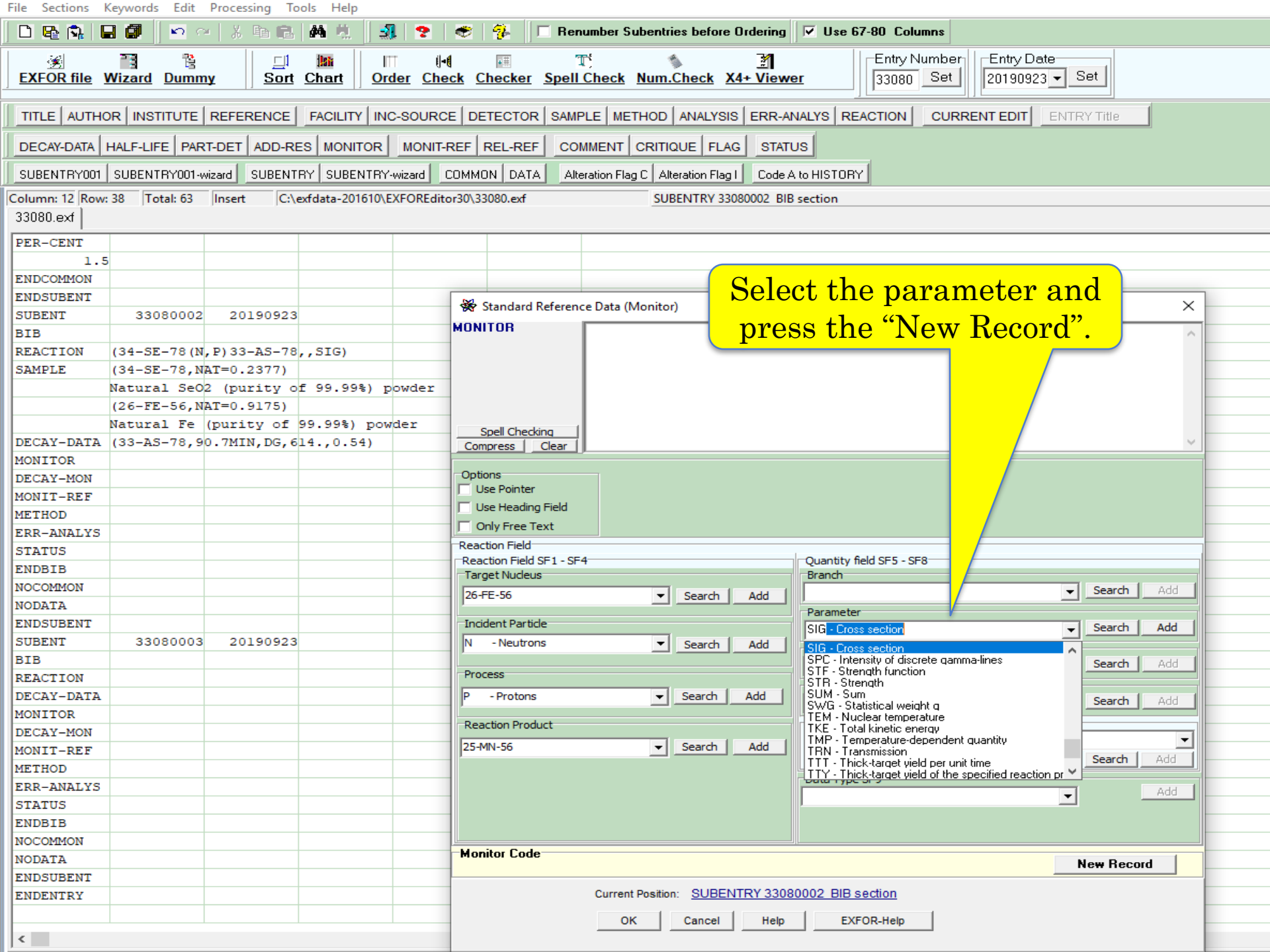
ELEM/MASS ELEM

MASS NPART

Cancel

Monitor Code New Record

Current Position: SUBENTRY 33080002 BIB section



Select the parameter and press the "New Record".

33080.exf

PER-CENT			
1.5			
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002	20190923	
BIB			
REACTION	(34-SE-78 (N, P) 33-AS-78,, , SIG)		
SAMPLE	(34-SE-78, NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56, NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78, 90.7MIN, DG, 614., 0.54)		
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION			
DECAY-DATA			
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Standard Reference Data (Monitor) ✕

**MONITOR** (26-FE-56 (N, P) 25-MN-56,, , SIG)

Spell Checking

Options

Use Pointer  
 Use Heading Field  
 Only Free Text

Reaction Field

Reaction Field SF1 - SF4

Target Nucleus

Incident Particle

Process

Reaction Product

Quantity field SF5 - SF8

Branch

Parameter

Particle Considered

Modifier

All Quantity Fields

Data Type SF9

**Monitor Code**

Current Position: [SUBENTRY 33080002 BIB section](#)

PER-CENT						
1.5						
ENDCOMMON						
ENDSUBENT						
SUBENT	33080002	20190923				
BIB						
REACTION	(34-SE-78 (N,P) 33-AS-78,,SIG)					
SAMPLE	(34-SE-78,NAT=0.2377)					
	Natural SeO2 (purity of 99.99%) powder					
	(26-FE-56,NAT=0.9175)					
	Natural Fe (purity of 99.99%) powder					
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)					
MONITOR	(26-FE-56 (N,P) 25-MN-56,,SIG)					
DECAY-MON						
MONIT-REF						
METHOD						
ERR-ANALYS						
STATUS						
ENDBIB						
NOCOMMON						
NODATA						
ENDSUBENT						
SUBENT	33080003	20190923				
BIB						
REACTION						
DECAY-DATA						
MONITOR						
DECAY-MON						
MONIT-REF						
METHOD						
ERR-ANALYS						
STATUS						
ENDBIB						
NOCOMMON						
NODATA						
ENDSUBENT						
ENDENTRY						

**EDIT the DECAY-MONIT keyword and select the Nuclide Field using Search**

PER-CENT	1.5	
ENDCOMMON		
ENDSUBENT		
SUBENT	33	
BIB		
REACTION	(34-S	
SAMPLE	(34-SE	
	Natural SeO2 (purity of 99.99%) powder	
	(26-FE-56,NAT=0.9175)	
	Natural Fe (purity of 99.99%) powder	
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)	
MONITOR	(26-FE-56 (N,P) 25-MN-56,,SIG)	
DECAY-MON		
MONIT-REF		
METHOD		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
SUBENT	33080003	20190923
BIB		
REACTION		
DECAY-DATA		
MONITOR		
DECAY-MON		
MONIT-REF		
METHOD		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
ENDENTRY		

Decay Data Editor

Decay Data

DECAY-MON

Spell Checking

Compress Clear

Heading

Use Heading Add

Nuclide Field

Half-Life Field

Number: Unit: Add

Radiation Field

SF1. Type of Radiation SF2. Energy SF3. Abundance

Add Add Add

New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

Nuclide Field

Elements

H 1	He 2
Li 3 Be 4 B 5 C 6 N 7 O 8 F 9	Ne 10
Na 11 Mg 12 Al 13 Si 14 P 15 S 16 Cl 17	Ar 18
K 19 Ca 20 Sc 21 Ti 22 V 23 Cr 24 Mn 25 Fe 26 Co 27 Ni 28	
Cu 29 Zn 30 Ga 31 Ge 32 As 33 Se 34 Br 35	Kr 36
Rb 37 Sr 38 Y 39 Zr 40 Nb 41 Mo 42 Tc 43 Ru 44 Rh 45 Pd 46	
Ag 47 Cd 48 In 49 Sn 50 Sb 51 Te 52 I 53	Xe 54
Cs 55 Ba 56 La 57 Hf 72 Ta 73 W 74 Re 75 Os 76 Ir 77 Pt 78	Ru 86
Au 79 Hg 80 Tl 81 Pb 82 Bi 83 Po 84 At 85	
Fr 87 Ra 88 Ac 89 Ku 104 Ns 105 106 107	
Ce 58 Pr 59 Nd 60 Pm 61 Sm 62 Eu 63 Gd 64 Tb 65 Dy 66 Ho 67 Er 68 Tm 69 Yb 70 Lu 71	
Th 90 Pa 91 U 92 Np 93 Pu 94 Am 95 Cm 96 Bk 97 Cf 98 Es 99 Fm 100 Md 101 No 102 Lr 103	

Isotopes

- 25-MN-54
- 25-MN-55
- 25-MN-56
- 25-MN-57
- 25-MN-58
- 25-MN-58-M
- 25-MN-59
- 25-MN-60
- 25-MN-60-M

Select

Cancel



PER-CENT			
1.5			
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002	20190923	
BIB			
REACTION	(34-SE-78 (N, P) 33-AS-78,, SIG)		
SAMPLE	(34-SE-78, NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56, NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78, 90.7MIN, DG, 614., 0.54)		
MONITOR	(26-FE-56 (N, P) 25-MN-56,, SIG)		
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION			
DECAY-DATA			
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Add Half-life value and select the Unit

**Decay Data Description**

**DECAY-MON**

Spell Checking Compress Clear

Heading  Use Heading Add

Nuclide Field 25-MN-56 Search Add

Half-Life Field Number: 2.578 Unit: **HR** - hours Add

Radiation Field SF1. Type of Radiation

- MICROSEC - microseconds
- MIN - minutes
- MSEC - milliseconds
- NSEC - nanoseconds
- D - days
- FSEC - femtoseconds
- HR - hours**
- PSEC - picoseconds
- SEC - seconds
- YR - years (=365.2422 Days)

record

Current Position: SUBENTRY 33080002 BIB section

OK Cancel Help EXFOR-Help

Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 10 Row: 39 Total: 63 Insert C:\exfdata-201610\EXFOREditor\30\33080.exf SUBENTRY 33080002 BIB section

33080.exf									
PER-CENT									
1.5									
ENDCOMMON									
ENDSUBENT									
SUBENT	33080002	20190923							
BIB									
REACTION	(34-SE-78 (N, P) 33-AS-78,, SIG)								
SAMPLE	(34-SE-78, NAT=0.2377)								
	Natural SeO2 (purity of 99.99%) powder								
	(26-FE-56, NAT=0.9175)								
	Natural Fe (purity of 99.99%) powder								
DECAY-DATA	(33-AS-78, 90.7MIN, DG, 614., 0.54)								
MONITOR	(26-FE-56 (N, P) 25-MN-56,, SIG)								
DECAY-MON									
MONIT-REF									
METHOD									
ERR-ANALYS									
STATUS									
ENDBIB									
NOCOMMON									
NODATA									
ENDSUBENT									
SUBENT	33080003	20190923							
BIB									
REACTION									
DECAY-DATA									
MONITOR									
DECAY-MON									
MONIT-REF									
METHOD									
ERR-ANALYS									
STATUS									
ENDBIB									
NOCOMMON									
NODATA									
ENDSUBENT									
ENDENTRY									

Select the Radiation-Field

Decay Data Description

DECAY-MON

Spell Checking

Compress Clear

Heading

Use Heading Add

Nuclide Field

25-MN-56 Search Add

Half-Life Field

Number: 2.578 Unit: HR - hours Add

Radiation Field

SF1. Type of Radiation

- DG - Decay Gammas
- DG - Decay Gammas
- DN - Delayed Neutrons
- E - Electrons
- EC - Electron Capture
- ER - Evaporation Residues
- ETA - Eta mesons
- FF - Fission Fragments
- G - Gammas
- HE2 - He-2
- HE3 - He-3
- HF - Heavy Fragment
- ICE - Internal Conversion Electrons

SF2. Energy Add

SF3. Abundance Add

New Record

002 BIB section

EXFOR-Help

PER-CENT			
1.5			
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002	20190923	
BIB			
REACTION	(34-SE-78 (N, P) 33-AS-78, , , SIG)		
SAMPLE	(34-SE-78, NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56, NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78, 90.7MIN, DG, 614., 0.54)		
MONITOR	(26-FE-56 (N, P) 25-MN-56, , , SIG)		
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION			
DECAY-DATA			
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Add energy value (keV) and abundance value and press "New Record"

Decay Data Description

DECAY-MON

Spell Checking Compress Clear

Heading  Use Heading  Add

Nuclide Field 25-MN-56  Set Add

Half-Life Field Number: 2.578 Unit: HR - hours Add

Radiation Field SF1. Type of Radiation DG - Decay Gammas SF2. Energy 847 SF3. Abundance 0.99 Search Add Add Add

**New Record**

Current Position: SUBENTRY 33080002 BIB section

OK Cancel Help EXFOR-Help

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 10 Row: 39 Total: 63 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080002 BIB section

33080.exf

PER-CENT									
1.5									
ENDCOMMON									
ENDSUBENT									
SUBENT	33080002	20190923							
BIB									
REACTION	(34-SE-78 (N, P) 33-AS-78, , SIG)								
SAMPLE	(34-SE-78, NAT=0.2377)								
	Natural SeO2 (purity of 99.99%) powder								
	(26-FE-56, NAT=0.9175)								
	Natural Fe (purity of 99.99%) powder								
DECAY-DATA	(33-AS-78, 90.7MIN, DG, 614., 0.54)								
MONITOR	(26-FE-56 (N, P) 25-MN-56, , SIG)								
DECAY-MON									
MONIT-REF									
METHOD									
ERR-ANALYS									
STATUS									
ENDBIB									
NOCOMMON									
NODATA									
ENDSUBENT									
SUBENT	33080003	20190923							
BIB									
REACTION									
DECAY-DATA									
MONITOR									
DECAY-MON									
MONIT-REF									
METHOD									
ERR-ANALYS									
STATUS									
ENDBIB									
NOCOMMON									
NODATA									
ENDSUBENT									
ENDENTRY									

**Decay Data Description** X

**DECAY-MON** (25-MN-56, 2.578HR, DG, 847., 0.99)

---

Spell Checking  Compress

Heading  Use Heading  Add

Nuclide Field  Search Add

Half-Life Field  
 Number:  Unit:  Add

Radiation Field

SF1. Type of Radiation <input type="text"/> <span style="float: right;">Search Add</span>	SF2. Energy <input type="text"/> <span style="float: right;">Add</span>	SF3. Abundance <input type="text"/> <span style="float: right;">Add</span>	Add
--	--	---	-----

New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

OK
Cancel
Help
EXFOR-Help

PER-CENT						
1.5						
ENDCOMMON						
ENDSUBENT						
SUBENT	33080002	20190923				
BIB						
REACTION	(34-SE-78 (N,P) 33-AS-78,, SIG)					
SAMPLE	(34-SE-78,NAT=0.2377)					
	Natural SeO2 (purity of 99.99%) powder					
	(26-FE-56,NAT=0.9175)					
	Natural Fe (purity of 99.99%) powder					
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)					
MONITOR	(26-FE-56 (N,P) 25-MN-56,, SIG)					
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)					
MONIT-REF						
METHOD						
ERR-ANALYS						
STATUS						
ENDBIB						
NOCOMMON						
NODATA						
ENDSUBENT						
SUBENT	33080003	20190923				
BIB						
REACTION						
DECAY-DATA						
MONITOR						
DECAY-MON						
MONIT-REF						
METHOD						
ERR-ANALYS						
STATUS						
ENDBIB						
NOCOMMON						
NODATA						
ENDSUBENT						
ENDENTRY						

	(ERR-3,,1.)	Neutron energy distribution	(<1%)		
	(ERR-4,,2.2)	Absolute gamma-ray intensity	(<2.2%)		
HISTORY	(20191031C)	VT			
ENDBIB					
COMMON	1	3			
ERR-1					
PER-CENT	1.5				
ENDCOMMON					
ENDSUBENT					
SUBENT	33080002	20191031			
BIB					
REACTION	(34-SE-78 (N, P) 33-AS-78,, SIG)				
SAMPLE	(34-SE-78, NAT=0.2377)				
	Natural SeO2 (purity of 99.99%) p				
	(26-FE-56, NAT=0.9175)				
	Natural Fe (purity of 99.99%) pow				
DECAY-DATA	(33-AS-78, 90.7MIN, DG, 614., 0.54)				
MONITOR	(26-FE-56 (N, P) 25-MN-56,, SIG)				
DECAY-MON	(25-MN-56, 2.578HR, DG, 847., 0.99)				
MONIT-REF					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
SUBENT	33080003	20191031			
BIB					
REACTION					
SAMPLE					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
ENDENTRY					

**EDIT the MONIT-REF keyword.**  
 Add subaccession# number, if exist, and  
 Author name

Information Input about Source F for Standrad Data

**MONIT-REF**

Spell Checking  
 Compress Clear

Heading Field

Subaccession# Field: 41298001 Add Author(Evaluator) Field: A.A.Filatenkov+ Add

Reference Field

Standard Reference Data Library

Reference Type: Journal

Edition (or Code): Search

Number( Reports/Preprint): Author:

Vol: Issue (Part): Page (Paper#): Date: New Record

Current Position: SUBENTRY 33080002 BIB section

OK Cancel Help EXFOR-Help

33080.exf

	(ERR-3,,1.)	Neutron energy distribution	(<1%)	
	(ERR-4,,2.2)	Absolute gamma-ray intensity	(<2.2%)	
HISTORY	(20191031C)	VT		
ENDBIB				
COMMON	1	3		
ERR-1				
PER-CENT	1.5			
ENDCOMMON				
ENDSUBENT				
SUBENT	33080002	20191031		
BIB				
REACTION	(34-SE-78 (N, P) 33-AS-78,, SIG)			
SAMPLE	(34-SE-78, NAT=0.2377)			
	Natural SeO2 (purity of 99.99%) p			
	(26-FE-56, NAT=0.9175)			
	Natural Fe (purity of 99.99%) pow			
DECAY-DATA	(33-AS-78, 90.7MIN, DG, 614., 0.54)			
MONITOR	(26-FE-56 (N, P) 25-MN-56,, SIG)			
DECAY-MON	(25-MN-56, 2.578HR, DG, 847., 0.99)			
MONIT-REF				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDSUBENT				
SUBENT	33080003	20191031		
BIB				
REACTION				
SAMPLE				
ERR-ANALYS				
STATUS				
ENDBIB				

Select the reference type

Information Input about Source Reference for Standrad Data

**MONIT-REF**

Spell Checking Compress Clear

Heading Field

Subaccession# Field: 41298001 Add Author(Evaluator) Field: A.Filatenkov+ Add

Reference Field

Standard Reference Data Library

Reference Type: Report other than progress report

Edition (or Code): Journal Abstract of journal Progress report Report other than progress report Report containing conference proc. Thesis or dissertation Private communication Preprint

Vol: Date: New Record

OK Cancel Help EXFOR-Help



File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy
 Sort Chart
 Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set
 Entry Date: 20191031 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 10 Row: 40 Total: 57 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002 BIB section 33080.exf

	(ERR-3,,1.)	Neutron energy distribution	(<1%)
	(ERR-4,,2.2)	Absolute gamma-ray intensity	(<2.2%)
HISTORY	(20191031C)	VT	
ENDBIB			
COMMON	1	3	
ERR-1			
PER-CENT	1.5		
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002	20191031	
BIB			
REACTION	(34-SE-78 (N,P) 33-AS-78,,SIG)		
SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) p		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) pow		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56 (N,P) 25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			

Select Edition of the Report

Information Input about Source Reference for Standrad Data

MONIT-REF

Spell Checking Compress Clear

Heading Field

Subaccession# Field: 41298001 Add Author(Evaluator) Field: A.A.Filatenkov Add

Reference Field

Standard Reference Data Library

Reference Type: Report other than progress report

Edition (or Code): RI - Khlopin Radiev

Number( Reports/Pre

Vol:

Record

- RI - Khlopin Radiev
- RIKEN-NC-NP - RIKEN
- RISO - RISO Researc
- RISO-M - RISO Resea
- RL - Lawrence Radia
- RLO - U.S. AEC Repo
- RPC - Radioplane Co
- RPCC - Reactor Phys
- RPI - Rensselaer Po
- RPI-PR - R.P.I. pro
- RRC - Reactor Resea
- RT/RI - Comitate Na

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA

Column: 10 Row: 40 Total: 57 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf

33080.exf

	(ERR-3,,1.)	Neutron energy distribution	(<1%)		
	(ERR-4,,2.2)	Absolute gamma-ray intensity	(<2.2%)		
HISTORY	(20191031C)	VT			
ENDBIB					
COMMON	1	3			
ERR-1					
PER-CENT	1.5				
ENDCOMMON					
ENDSUBENT					
SUBENT	33080002	20191031			
BIB					
REACTION	(34-SE-78 (N, P) 33-AS-78,, SIG)				
SAMPLE	(34-SE-78, NAT=0.2377)				
	Natural SeO2 (purity of 99.99%) P				
	(26-FE-56, NAT=0.9175)				
	Natural Fe (purity of 99.99%) pow				
DECAY-DATA	(33-AS-78, 90.7MIN, DG, 614., 0.54)				
MONITOR	(26-FE-56 (N, P) 25-MN-56,, SIG)				
DECAY-MON	(25-MN-56, 2.578HR, DG, 847., 0.99)				
MONIT-REF					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
SUBENT	33080003	20191031			
BIB					
REACTION					
SAMPLE					
ERR-ANALYS					
STATUS					

- Add Report number and date (year)
- press the “New Record” button

Information Input about Source Reference for **33080002** data

**MONIT-REF**

Spell Checking Compress Clear

Heading Field

Subaccession# Field: 41298001 Add Author(Evaluator) Field: A.A.Filatenkov+ Add

Reference Field

Standard Reference Data Library

Reference Type: Report other than progress report

Edition (or Code): RI - Khlopin Radiev Search

Number( Reports/Preprint): 252 Author:

Vol: Issue (Part): Page (Paper#): Date: 1999 **New Record**

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

	(ERR-3,,1.)	Neutron energy distribution		(<1%)	
	(ERR-4,,2.2)	Absolute gamma-ray intensity		(<2.2%)	
HISTORY	(20191031C)	VT			
ENDBIB					
COMMON		1	3		
ERR-1					
PER-CENT					
	1.5				
ENDCOMMON					
ENDSUBENT					
SUBENT	33080002	20191031			
BIB					
REACTION	(34-SE-78 (N,P) 33-AS-78,,SIG)				
SAMPLE	(34-SE-78,NAT=0.2377)				
	Natural SeO2 (purity of 99.99%) P				
	(26-FE-56,NAT=0.9175)				
	Natural Fe (purity of 99.99%) pow				
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)				
MONITOR	(26-FE-56 (N,P) 25-MN-56,,SIG)				
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)				
MONIT-REF					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
SUBENT	33080003	20191031			
BIB					
REACTION					
SAMPLE					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					

Information Input about Source Reference for Standrad Data

**MONIT-REF** (41298001,A.A.Filatenkov+,R,RI-252,1999)

Spell Checking Compress Clear

Heading Field

Subaccession# Field: 41298001 Add Author(Evaluator) Field: A.A.Filatenkov+ Add

Reference Field

Standard Reference Data Library

Reference Type: Report other than progress report

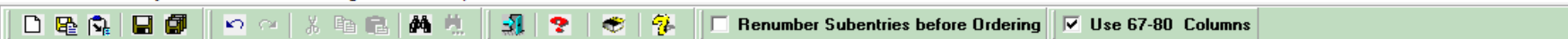
Edition (or Code): RI - Khlopin Radiev Search

Number( Reports/Preprint): 252 Author:

Vol: Issue (Part): Page (Paper#): Date: 1999 **New Record**

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help



Renummer Subentries before Ordering     Use 67-80 Columns

**EXFOR file Wizard Dummy**    **Sort Chart**    **Order Check Checker Spell Check Num.Check X4+ Viewer**

Entry Number: 33080    Set    Entry Date: 20191031    Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 1 Row: 41 Total: 57 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002 BIB section

33080.exf

	(ERR-3,,1.)	Neutron energy distribution		(<1%)	
	(ERR-4,,2.2)	Absolute gamma-ray intensity		(<2.2%)	
HISTORY	(20191031C)	VT			
ENDBIB					
COMMON	1	3			
ERR-1					
PER-CENT					
	1.5				
ENDCOMMON					
ENDSUBENT					
SUBENT	33080002	20191031			
BIB					
REACTION	(34-SE-78(N,P)33-AS-78,,SIG)				
SAMPLE	(34-SE-78,NAT=0.2377)				
	Natural SeO2 (purity of 99.99%) powder				
	(26-FE-56,NAT=0.9175)				
	Natural Fe (purity of 99.99%) powder				
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)				
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)				
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)				
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)				
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
SUBENT	33080003	20191031			
BIB					
REACTION					
SAMPLE					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
ENDENTRY					

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Renumber Subentries before Ordering Use 67-80 Columns

Entry Number: 33080 Set Entry Date: 20191031 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 41 Total: 60 Insert C:\EXFOR3.4\EXFOReditor3.4\33080.exf SUBENTRY 33080002 BIB section 33080.exf

SAMPLE	(34-SE-78,NAT=0.2377)			
	Natural SeO2 (purity of 99.99%) powder			
	(26-FE-56,NAT=0.9175)			
	Natural Fe (purity of 99.99%) powder			
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)			
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)			
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)			
MONIT-REF	(41298001,A.A.Filatentkov+,R,PT-252-1999)			
METHOD				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDDATA				
ENDSUBENT				
SUBENT	33080003	20191031		
BIB				
REACTION				
SAMPLE				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDSUBENT				
ENDENTRY				

**EDIT the METHOD keyword.**

- Select the method used
- Press the “New Code”.

Method edit

METHOD

Spell Checking Compress Clear

Dictionary

ACTIV - Activation

ACTIV - Activation  
AMS - Accelerator mass spectrometry  
ASEP - Separation by mass-separator  
ASPEC - Alpha spectrometry  
ASSOP - Associated particle  
BCINT - Beam current integrated  
BGCT - Beta-gamma coincidence technique  
BSPEC - Beta ray spectrometry  
BURN - Burn-up (NEUT)  
CADMB - Cadmium bath (NEUT)  
CHARG - Measurements in gas discharge  
CHRFL - Christiansen filter (NEUT)

Search New Code Add to String

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,PT,352,1999)		
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Add free text relevant information about the method

Method edit

**METHOD**

(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.

Spell Checking Compress Clear

Dictionary

Search New Code Add to String

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set    Entry Date: 20191031 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY TITLE

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 41 Total: 60 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002 BIB section

33080.exf

SAMPLE	(34-SE-78,NAT=0.2377)				
	Natural SeO2 (purity of 99.99%) powder				
	(26-FE-56,NAT=0.9175)				
	Natural Fe (purity of 99.99%) powder				
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)				
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)				
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)				
MONIT-REF	(41298001,A.A.Filatenkov+,R,PT-252,1999)				
METHOD					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDDATA					
ENDSUBENT					
SUBENT	33080003	20191031			
BIB					
REACTION					
SAMPLE					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
ENDENTRY					

- Select the 2<sup>nd</sup> method from the dictionary
- Press the “New Code”

Method edit

METHOD (ACTIV) Irradiated for 5400    then measured for 900 sec.

Spell Checking    Compress    Clear

Dictionary

MOMIX - Mixed monitor

MOMIX - Mixed monitor

MOSEP - Separate monitor foil

OLMS - On-line mass separation

PHD - Pulse-height discrimination

PLSED - Pulse die-away

PSD - Pulse-shape discrimination

RCHEM - Radiochemical separation (FY)

REAC - Reactivity measurement (NEUT)

REC - Collection of recoils

REFL - Total reflection from mirrors (NEUT)

RELFY - Relative fission yield measurement (FY)

RINGR - Ring ratio method

Search    New Code    Add to String



File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20191031

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 41 Total: 60 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002 BIB section

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,PT-252,1999)		
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Add relevant information in the free text about the method.  
Press OK button

Method edit

**METHOD**

(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.  
(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)

Spell Checking  
 Compress  Clear

Dictionary

Search

Current Position: [SUBENTRY 33080002 BIB section](#)

Column: 12 Row: 51 Total: 63 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002

33080.exf

SAMPLE	(34-SE-78,NAT=0.2377)				
	Natural SeO2 (purity of 99.99%) powder				
	(26-FE-56,NAT=0.9175)				
	Natural Fe (purity of 99.99%) powder				
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)				
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)				
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)				
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)				
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for				
	900 sec.				
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g)				
	packed in a polyethylene bag (10 mm X 10 mm)				
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDDATA					
ENDSUBENT					
SUBENT	33080003	20191031			
BIB					
REACTION					
SAMPLE					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
ENDENTRY					

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20191031 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 45 Total: 63 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002 BIB section 33080.exf

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatentkov+,R,RI-252,1999)		
METHOD	(ACTIV) Irradiated for 5400 sec., then measured		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1		
	packed in a polyethylene bag (10 mm X 10 mm)		
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**EDIT the ERR-ANALYS keyword and select the MONIT-ERR**

Error Source Description

ERR-ANALYS

Spell Checking Compress Clear

Dictionary

- MONIT-ERR - Error in normalization value
- MONIT-ERR - Error in normalization value
- POL-BM-ERR - Beam polarization error
- POL-TR-ERR - Target polarization error
- Q-VAL-ERR - Q-value uncertainty
- .RATIO-ERR - Unsymmetric ratio error
- RATIO-ERR - Ratio error
- RATIO-ERR1 - 1st ratio error
- RATIO-ERR2 - 2nd ratio error
- RATIO-ERR3 - 3rd ratio error
- STAND1-ERR - Error in 1st standard value
- STAND2-ERR - Error in 2nd standard value
- STAND3-ERR - Error in 3rd standard value

Search Add

Add New Record

Renumber Subentries before Ordering  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20191031 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 45 Total: 63 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002 BIB section

33080.exf		
SAMPLE	(34-SE-78,NAT=0.2377)	
	Natural SeO2 (purity of 99.99%) powder	
	(26-FE-56,NAT=0.9175)	
	Natural Fe (purity of 99.99%) powder	
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)	
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)	
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)	
MONIT-REF	(41298001,A.A.Filatkov+,R,RI-252,1999)	
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.	
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)	
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDDATA		
ENDSUBENT		
SUBENT	33080003	20191031
BIB		
REACTION		
SAMPLE		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
ENDENTRY		

Add minimum and maximum value of error if provided in the paper.  
 Press the "New Record" button.

Error Source Description

ERR-ANALYS

Spell Checking Compress Clear

Dictionary: MONIT-ERR - Error in normalization value Search Add

Minimum Value, %: 2 Add Maximum Value, %: 3.7 Add Correlation Property: Add

New Record

Current Position: [SUBENTRY 33080002 BIB section](#)

OK Cancel Help EXFOR-Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURR

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 45 Total: 63 Insert C:\EXFOR3.4\EXFOEditor3.4\33080.exf SUBENTRY 33080002 BIB section 33080.exf

SAMPLE	(34-SE-78,NAT=0.2377)			
	Natural SeO2 (purity of 99.99%) powder			
	(26-FE-56,NAT=0.9175)			
	Natural Fe (purity of 99.99%) powder			
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)			
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)			
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)			
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)			
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.			
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)			

Add relevant free text information about the error. Press OK button

ERR-ANALYS  
 STATUS  
 ENDBIB  
 NOCOMMON  
 NODATA  
 ENDDATA  
 ENDSUBENT  
 SUBENT  
 BIB  
 REACTION  
 SAMPLE  
 ERR-ANALYS  
 STATUS  
 ENDBIB  
 NOCOMMON  
 NODATA  
 ENDSUBENT  
 ENENTRY

**Error Souce Description**

ERR-ANALYS (MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)

MONIT-ERR - Error in normalization value

Minimum Value, %  
 Maximum Value, %  
 Correlation Property

Current Position: [SUBENTRY 33080002 BIB section](#)



EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HIS

Column: 1 Row: 46 Total: 63 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002 BIB section

33080.exf

SAMPLE	(34-SE-78,NAT=0.2377)				
	Natural SeO2 (purity of 99.99%) powder				
	(26-FE-56,NAT=0.9175)				
	Natural Fe (purity of 99.99%) powder				
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)				
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)				
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)				
MONIT-REF	(41298001,A.A.Filatnikov+,R,RI-252,1999)				
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.				
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g)				
	packed in a polyethylene bag (10 mm X 10 mm)				
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)				
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDDATA					
ENDSUBENT					
SUBENT	33080003	20191031			
BIB					
REACTION					
SAMPLE					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
ENDENTRY					



Renummer Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set

TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION	CURRE
DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS	REACTION (New)	
SUBENTRY001	SUBENTRY001-wizard											

**EDIT the STATUS**

Select the type of data presented in paper  
(digitized data (CURVE), data provided by author, data  
in tabulated form (TABLE))

Column: 1 Row: 46 Total: 63 Insert

33080.exf

SAMPLE	(34-SE-78,NAT=0.2
	Natural SeO2 (pur
	(26-FE-56,NAT=0.9
	Natural Fe (purit
DECAY-DATA	(33-AS-78,90.7MIN,
MONITOR	(26-FE-56 (N,P) 25-MN-56,, SIG)
DECAY-MON	(25-MN-56,2.578HR, DG, 847., 0.99
MONIT-REF	(41298001,A.A.Filatenkov+,R,P
METHOD	(ACTIV) Irradiated for 5400 measured for
	900 sec.
	(MOMIX) SeO2 and Fe powder (weight of ~1 g)
	packed in a polyethylene b (mm X 10 mm)
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n, n) cross section (2-3.7%)

Input of data status and value source

**STATUS**

Spell Checking Compress Clear

Dictionary

STATUS
ENDBIB
NOCOMMON
NODATA
ENDDATA
ENDSUBENT
SUBENT 33
BIB
REACTION
SAMPLE
ERR-ANALYS
STATUS
ENDBIB
NOCOMMON
NODATA
ENDSUBENT
ENDENTRY



File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry D: 201910

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 1 Row: 46 Total: 63 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002 BIB section

SAMPLE	(34-SE-78,NAT=0.2377)			
	Natural SeO2 (purity of 99.99%) powder			
	(26-FE-56,NAT=0.9175)			
	Natural Fe (purity of 99.99%) powder			
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)			
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)			
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)			
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)			
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.			
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)			
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)			
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDDATA				
ENDSUBENT				
SUBENT	33080002			
BIB				
REACTION				
SAMPLE				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDSUBENT				
ENDENTRY				

In free text write Table or Figure number, Journal name, Volume, year and page number

Input of data status and actual value source

STATUS (TABLE) Table II of Phys. Rev. C 90 (2014) 064609

Spell Checking
  Compress
  Clear

Dictionary

Search

Subaccession

Subentry Number (8 characters):

Additional Information about Data Source

Data were obtained from:

Current Position: [SUBENTRY 33080002 BIB section](#)



33080.exf

SAMPLE	(34-SE-78,NAT=0.2377)			
	Natural SeO2 (purity of 99.9%)			
	(26-FE-56,NAT=0.9175)			
	Natural Fe (purity of 99.9% powder)			
DECAY-DATA	(33-AS-78,90.7MIN,DG,61)			
MONITOR	(26-FE-56(N,P)25-MN-56)			
DECAY-MON	(25-MN-56,2.578HR,DG,0.99)			
MONIT-REF	(41298001,A.A.File)			
METHOD	(ACTIV) Irradiation for 5400 sec., then			
	900 sec.			
	(MOMIX) SeO2 and Fe powder (total weight			
	packed in a polyethylene bag (10 mm			
ERR-ANALYS	(MONIT-ERR,3.7) 56Fe(n,p)56Mn cross			
STATUS	(TABLE) Table II of Phys. Rev. C 90			
ENDBIB				
NOCOMMON				
DATA				
ENDDATA				
ENDSUBENT				
SUBENT	33080003	20191031		
BIB				
REACTION				
SAMPLE				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDSUBENT				
ENDENTRY				

**EDIT the DATA**  
keyword

 Current Subentry  
**33080002**

## DATA

 Import Sort  
 Paste Chart  
 Clear Check

## Column

 Add Insert  
 Copy Delete  
 Rename  
 Move Left Move Right  
 Calculations  
 Set Value  
 Set Precision

## Row

 Add Insert  
 Copy Delete  
 Move Up Move Down

## Undo

Undo Last Action

## Table

 Precision for Table  
 Clear Data Table  
 Export Data Table  
 Add Data Table  
 Cancel

EXFOR-Help

Help

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1		
METHOD	(ACTIV) Irradiated for 5400 sec., then		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Click on the "Add" button in Column tab

**Data Table**

1		

Column Title for Data Table

Heading:

Units:

Search

Add Column  Cancel

**Current Subentry**  
33080002

**DATA**

Import  Sort

Paste  Chart

Clear  Check

**Column**

Add  Insert

Copy  Delete

Rename

Move Left  Move Right

Calculations

Set Value

Set Precision

**Row**

Add  Insert

Copy  Delete

Move Up  Move Down

**Undo**

Undo Last Action

**Table**

Precision for Table

Clear Data Table

Export Data Table

Add Data Table

Cancel

EXFOR-Help

Help

Select the heading  
e.g. incident energy

Order Check Checker Spell Check Num.Check X+ Viewer

Entry Number: 33080 Set  
Entry Date: 20191031 Set

TITLE INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECA OR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 49 Total: 63 Insert C:\E...FOREditor3.4\33080.exf SUBENTRY 33080002 DATA section

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) po		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)	1	
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1		
METHOD	(ACTIV) Irradiated for 5400 sec., th		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total we		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cro		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**Data Table**

1	

**Column Title for Data Table**

Heading : EN - Energy of incident projectile, laboratory system

Units : EN - Energy of incident projectile, laboratory system

- EN-APRX - Approximate value of incident projectile energy
- EN-CM - Sum of projectile and target energies in c.m.s.
- EN-CM-MAX - Upper limit of c.m. incident projectile energy range
- EN-CM-MIN - Lower limit of c.m. incident projectile energy range
- EN-CM-NRM - Inc.proj. energy [in c.m.] Used for normalization
- EN-DN - Incident energy for REACTION ratio denominator
- EN-NRM - Incident projectile energy Used for normalization
- EN-NRM-MAX - Upper limit of incident en. range for normalization
- EN-NRM-MIN - Lower limit of incident en. range for normalization
- EN-NRM-RSL - Energy resolution of normalization incident energy
- EN-NRM1 - 1st incident proj.en. for normalization, see MONITOR

**Current Subentry**  
33080002

**DATA**

Import Sort  
Paste Chart  
Clear Check

**Column**

Add Insert  
Copy Delete  
Rename  
Move Left Move Right  
Calculations  
Set Value  
Set Precision

**Row**

Add Insert  
Copy Delete  
Move Up Move Down

**Undo**  
Undo Last Action

**Table**

Precision for Table  
Clear Data Table  
Export Data Table  
Add Data Table  
Cancel

EXFOR-Help  
Help

Select the Units  
for Energy

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%)		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1		
METHOD	(ACTIV) Irradiated for 5400 sec., then		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Data Table

Column Title for Data Table

Heading: EN - Energy of incident projectile, laboratory system

Units: MEV - MeV

NANO-EV - nano-Electron-Volts  
 EV - electron-Volts  
 GEV - GeV  
 GEV/A - GeV per mass number  
 KEV - keV  
 MEV - MeV  
 MEV/A - MeV per mass number  
 TEV - tera-Electron-Volts

Current Subentry  
**33080002**

DATA

Import Sort  
 Paste Chart  
 Clear Check

Column

Add Insert  
 Copy Delete  
 Rename  
 Move Left Move Right  
 Calculations  
 Set Value  
 Set Precision

Row

Add Insert  
 Copy Delete  
 Move Up Move Down

Undo

Undo Last Action

Table

Precision for Table  
 Clear Data Table  
 Export Data Table  
 Add Data Table  
 Cancel

EXFOR-Help  
 Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer
 Entry Number: 33080 Set
 Entry Date: 20191031 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 49 Total: 63 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002 DATA section 33080.exf

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1		
METHOD	(ACTIV) Irradiated for 5400 sec., then		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**Data Table**

EN	
MEV	
1	

**Current Subentry**  
33080002

**DATA**

Import Sort  
Paste Chart  
Clear Check

**Column**

Add Insert  
Copy Delete  
Rename  
Move Left Move Right  
Calculations  
Set Value  
Set Precision

**Row**

Add Insert  
Copy Delete  
Move Up Move Down

**Undo**  
Undo Last Action

**Table**

Precision for Table  
Clear Data Table  
Export Data Table  
Add Data Table  
Cancel



Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set      Entry Date: 20191031 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR S...      PREVIOUS EDIT      ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA

Column: 12 Row: 49 Total: 63 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf  
33080.exf

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		1
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatkov+,R,RI-252,1		
METHOD	(ACTIV) Irradiated for 5400 sec., th		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total we		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cro		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Click on the "Add" button in Column tab for 2<sup>nd</sup> heading

**Data Table**

EN
MEV
1

Column Title for Data Table

Heading:  Search

Units:

**Current Subentry**  
33080002

**DATA**

Import Sort  
Paste Chart  
Clear Check

**Column**

Add Insert  
Copy Delete  
Rename  
Move Left Move Right  
Calculations  
Set Value  
Set Precision

**Row**

Add Insert  
Copy Delete  
Move Up Move Down

**Undo**  
Undo Last Action

**Table**

Precision for Table  
Clear Data Table  
Export Data Table  
Add Data Table  
Cancel

EXFOR-Help  
Help

Select the heading  
e.g. DATA

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%)		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECA...-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECA...-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1		
METHOD	(ACTIV) Irradiated for 5400 sec., th		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total we		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cro		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**Data Table**

Current Subentry: **33080002**

**DATA**

Import Sort  
Paste Chart  
Clear Check

**Column**

Add Insert  
Copy Delete  
Rename  
Move Left Move Right  
Calculations  
Set Value  
Set Precision

**Row**

Add Insert  
Copy Delete  
Move Up Move Down

**Undo**

Undo Last Action

**Table**

Precision for Table  
Clear Data Table  
Export Data Table  
Add Data Table  
Cancel

EXFOR-Help  
Help

**Column Title for Data Table**

Heading: DATA - Value of quantity specified under REACTION

Units: DATA - Value of quantity specified under REACTION  
 DATA-APRX - Approximate value of quantity specif. under REACTION  
 DATA-CM - Value of quantity specif. under REACTION, c.m. sys.  
 DATA-ERR - Error in value of quantity, defined under ERR-ANALYS  
 DATA-ERR1 - 1st data uncertainty, defined under ERR-ANALYS  
 DATA-ERR2 - 2nd data uncertainty, defined under ERR-ANALYS  
 DATA-ERR3 - 3rd data uncertainty, defined under ERR-ANALYS  
 DATA-ERR4 - 4th data uncertainty, defined under ERR-ANALYS  
 DATA-ERR5 - 5th data uncertainty, defined under ERR-ANALYS  
 DATA-ERR6 - 6th data uncertainty, defined under ERR-ANALYS  
 DATA-MAX - Upper limit of quantity specified under REACTION  
 DATA-MIN - Lower limit of quantity specified under REACTION

Select the Units for the DATA  
as given in the paper

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%)		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)	1	
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1		
METHOD	(ACTIV) Irradiated for 5400 sec., th		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total we		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cro		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Column Title for Data Table

Heading: DATA - Value of quantity specified under REACTION

Units: MB - millibarns

- MB - millibarns
- MB\*EV - millibarns \* eV
- MB\*EV-SQ - millibarns \* eV-squared
- MB\*MEV - millibarns \* MeV
- MB\*MEV/SR - millibarns\*MeV per steradian
- MB\*MILLIEV - millibarns \* milli-eV
- MB\*RT-EV - millibarns \* square-root(eV)
- MB/EV - millibarns per eV

Current Subentry  
**33080002**

DATA

Import	Sort
Paste	Chart
Clear	Check

Column

Add	Insert
Copy	Delete
Rename	
Move Left	Move Right
Calculations	
Set Value	
Set Precision	

Row

Add	Insert
Copy	Delete
Move Up	Move Down

Undo

Undo Last Action

Table

Precision for Table
Clear Data Table
Export Data Table
Add Data Table
Cancel

EXFOR-Help

Help

33080.exf

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1		
METHOD	(ACTIV) Irradiated for 5400 sec., th		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total we		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cro		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Data Table

EN	DATA
MEV	MB
1	

Current Subentry  
33080002

## DATA

Import	Sort
Paste	Chart
Clear	Check

## Column

Add	Insert
Copy	Delete
Rename	
Move Left	Move Right
Calculations	
Set Value	
Set Precision	

## Row

Add	Insert
Copy	Delete
Move Up	Move Down

## Undo

Undo Last Action

## Table

Precision for Table
Clear Data Table
Export Data Table
Add Data Table
Cancel

EXFOR-Help

Help

Click on the "Add" button in Column tab for 3rd heading

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,,0.99)		
MONIT-REF	(41298001,A.A.Filatentkov+,R,RI-252,1		
METHOD	(ACTIV) Irradiated for 5400 sec., th		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total we		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cro		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Data Table

EN	DATA
MEV	MB
1	

Column Title for Data Table

Heading :  Search

Units :

**Current Subentry**  
33080002

**DATA**

Import Sort

Paste Chart

Clear Check

**Column**

Add Insert

Copy Delete

Rename

Move Left Move Right

Calculations

Set Value

Set Precision

**Row**

Add Insert

Copy Delete

Move Up Move Down

**Undo**

Undo Last Action

**Table**

Precision for Table

Clear Data Table

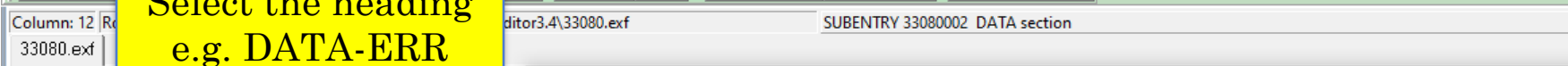
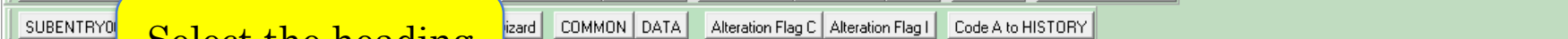
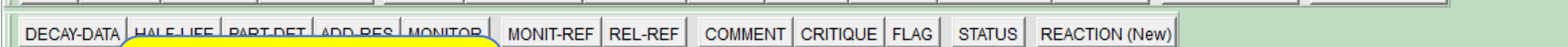
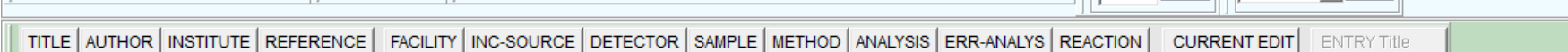
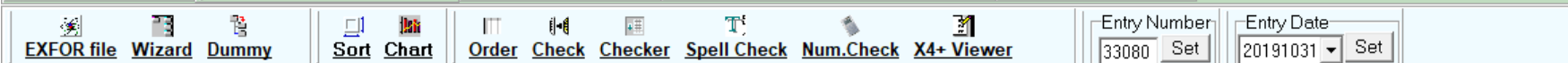
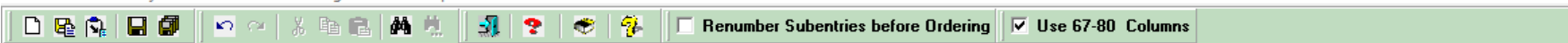
Export Data Table

Add Data Table

Cancel

EXFOR-Help

Help



SAMPLE			
	Natural SeO2 (purity (26-FE-56,NAT=0.9175)) powder		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1)		
METHOD	(ACTIV) Irradiated for 5400 sec., then 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weighed 1.000 g) packed in a polyethylene bag (10 mm diameter)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Select the heading e.g. DATA-ERR

EN	DATA
MEV	MB

Column Title for Data Table

Heading: DATA-ERR - Error in value of quantity, defined under ERR-ANALYS

Units:

- DATA-ERR - Error in value of quantity, defined under ERR-ANALYS
- DATA-ERR1 - 1st data uncertainty, defined under ERR-ANALYS
- DATA-ERR2 - 2nd data uncertainty, defined under ERR-ANALYS
- DATA-ERR3 - 3rd data uncertainty, defined under ERR-ANALYS
- DATA-ERR4 - 4th data uncertainty, defined under ERR-ANALYS
- DATA-ERR5 - 5th data uncertainty, defined under ERR-ANALYS
- DATA-ERR6 - 6th data uncertainty, defined under ERR-ANALYS
- DATA-MAX - Upper limit of quantity specified under REACTION
- DATA-MIN - Lower limit of quantity specified under REACTION
- DATA-MN-CM - Lower lim. of quant.specif.under REACTION, c.m.sys.
- DATA-MX-CM - Upper lim. of quant.specif.under REACTION, c.m.sys.
- DCNST - Decay constant

**Current Subentry**  
33080002

**DATA**

Import Sort  
Paste Chart  
Clear Check

**Column**

Add Insert  
Copy Delete  
Rename  
Move Left Move Right  
Calculations  
Set Value  
Set Precision

**Row**

Add Insert  
Copy Delete  
Move Up Move Down

**Undo**

Undo Last Action

**Table**

Precision for Table  
Clear Data Table  
Export Data Table  
Add Data Table  
Cancel

EXFOR-Help  
Help

Select the Unit for DATA-ERR

SAMPLE	(34-S		
	Natural		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.9		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-25		
METHOD	(ACTIV) Irradiated for 5400 sec., t		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total we		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cro		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

EN	DATA
MEV	MB
1	

Column Title for Data Table

Heading: DATA-ERR - Error in value of quantity, defined under ERR-ANALYS

Units: MB - millibarns

- MB - millibarns
- MB\*EV - millibarns \* eV
- MB\*EV-SQ - millibarns \* eV-squared
- MB\*MEV - millibarns \* MeV
- MB\*MEV/SR - millibarns\*MeV per steradian
- MB\*MILLIEV - millibarns \* milli-eV
- MB\*RT-EV - millibarns \* square-root(eV)
- MB/EV - millibarns per eV

**Current Subentry**  
33080002

**DATA**

Import Sort  
Paste Chart  
Clear Check

**Column**

Add Insert  
Copy Delete  
Rename  
Move Left Move Right  
Calculations  
Set Value  
Set Precision

**Row**

Add Insert  
Copy Delete  
Move Up Move Down

**Undo**

Undo Last Action

**Table**

Precision for Table  
Clear Data Table  
Export Data Table  
Add Data Table  
Cancel





EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set

Entry Date: 20191031 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 49 Total: 63 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080002 DATA section

33080.exf

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatkov+,R,RI-252,1		
METHOD	(ACTIV) Irradiated for 5400 sec., then		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Data Table

EN	DATA	DATA-ERR
MEV	MB	MB
1		

**Current Subentry**  
33080002

**DATA**

Import Sort

Paste Chart

Clear Check

**Column**

Add Insert

Copy Delete

Rename

Move Left Move Right

Calculations

Set Value

Set Precision

**Row**

Add Insert

Copy Delete

Move Up Move Down

**Undo**

Undo Last Action

**Table**

Precision for Table

Clear Data Table

Export Data Table

Add Data Table

Cancel

EXFOR-Help

Help

Renumber Subentries before Ordering  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Check

Entry Number: 33080 Set Entry Date: 20191031 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-FUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Code A to HISTORY

Column: 12 Row: 49 Total: 63 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY DATA section

33080.exf

Add Rows

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1		
METHOD	(ACTIV) Irradiated for 5400 sec., th		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total we		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cro		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Data Table

EN	DATA	DATA-ERR
MEV	MB	MB
1		

Current Subentry: 33080002

DATA

Import Sort

Paste Chart

Clear Check

Column

Add Insert

Copy Delete

Rename

Move Left Move Right

Calculations

Set Value

Set Precision

Row

Add Insert

Copy Delete

Move Up Move Down

Undo

Undo Last Action

Table

Precision for Table

Clear Data Table

Export Data Table

Add Data Table

Cancel

EXFOR-Help

Help

Add Rows

End of Table

Number of Rows to Add

4

OK Cancel

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1		
METHOD	(ACTIV) Irradiated for 5400 sec., th		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total we		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cro		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**Data Table**

Selected Column: 1 Selected Row: 2

EN	DATA	DATA-ERR
MEV	MB	MB
1		
2		
3		
4		
5		

**Current Subentry**  
33080002

**DATA**

Import Sort

Paste Chart

Clear Check

**Column**

Add Insert

Copy Delete

Rename

Move Left Move Right

Calculations

Set Value

Set Precision

**Row**

Add Insert

Copy Delete

Move Up Move Down

**Undo**

Undo Last Action

**Table**

Precision for Table

Clear Data Table

Export Data Table

Add Data Table

Cancel

EXFOR-Help

Help

Import or copy paste the data

Column: 12 Row: 49 Total: 63 33080.exf SUBENTRY 33080002 DATA section

SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1)		
METHOD	(ACTIV) Irradiated for 5400 sec., then		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight		
	packed in a polyethylene bag (10 mm		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross		
STATUS	(TABLE) Table II of Phys. Rev. C 90		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Selected Column: 3 Selected Row: 5

	EN	DATA	DATA-ERR
	MEV	MB	MB
1	13.73	15.6	1.5
2	14.07	17	1.6
3	14.42	18.6	1.6
4	14.68	20.4	1.7
5	14.77	22	1.7

- □ ×

**Current Subentry**  
**33080002**

**DATA**

**Column**

**Row**

**Undo**

**Table**

EXFOR-Help

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Num  
33080

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 1 Row: 58 Total: 71 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf

SUBENTRY 33080002 DATA section

33080.exf

SAMPLE	(34-SE-78,NAT=0.2377)			
	Natural SeO2 (purity of 99.99%) powder			
	(26-FE-56,NAT=0.9175)			
	Natural Fe (purity of 99.99%) powder			
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)			
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)			
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)			
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)			
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for			
	900 sec.			
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g)			
	packed in a polyethylene bag (10 mm X 10 mm)			
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)			
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609			
ENDBIB				
NOCOMMON				
DATA		3	5	
EN	DATA		DATA-ERR	
MEV	MB		MB	
	13.73	15.6	1.5	
	14.07	17.	1.6	
	14.42	18.6	1.6	
	14.68	20.4	1.7	
	14.77	22.	1.7	

ENDDATA

ENDDATA

ENDSUBENT

SUBENT 33080003 20191031

BIB

REACTION

SAMPLE

ERR-ANALYS

STATUS

ENDBIB

NOCOMMON

NODATA

ENDSUBENT

ENDENTRY

File Sections Keywords Edit Processing Tools Help

Renummer Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20191031

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 62 Total: 71 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080003 BIB section

33080.exf			
	Nature		
	(26-FI		
	Nature		
DECAY-DATA	(33-A		
MONITOR	(26-FI		
DECAY-MON	(25-MN		
MONIT-REF	(41298001,A	kov+,R,RI-252,1999)	
METHOD	(ACTIV) Irr	or 5400 sec., then measured for	
	900 sec.		
	(MOMIX) Se	powder (total weight of ~1 g)	
	packed in	ethylene bag (10 mm X 10 mm)	
ERR-ANALYS	(MONIT-ER	) 56Fe(n,p)56Mn cross section (2-3.7%)	
STATUS	(TABLE)	of Phys.	
ENDBIB			
NOCOMMON			
DATA		5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	1.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**EDIT the REACTION keyword**

REACTION Edit

REACTION

Compress Clear

Pointer: 1 Add

New Record

Target nucleus SF1: Add

Incident Particle SF2: Add

Process SF3: Add

Product SF4: Add

Branch SF5: Add

Parameters SF6: Add

Particle Considered SF7: Add

Modifiers SF8: Add

Quantity Code SF5-8: Add

Data Code SF9: Add

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help

Select the Target by clicking on search option

target Nucleus (SF1)

Elements

H 1	He 2
Li 3 Be 4 B 5 C 6 N 7 O 8 F 9	Ne 10
Na 11 Mg 12 Al 13 Si 14 P 15 S 16 Cl 17	Ar 18
K 19 Ca 20 Sc 21 Ti 22 V 23 Cr 24 Mn 25 Fe 26 Co 27 Ni 28	Kr 36
Zn 30 Ga 31 Ge 32 As 33 Se 34 Br 35	
Rb 37 Y 39 Zr 40 Nb 41 Mo 42 Tc 43 Ru 44 Rh 45 Pd 46	Xe 54
Ag 47 Cd 48 In 49 Sn 50 Sb 51 Te 52 I 53	
Cs 55 Ba 56 La 57 Hf 72 Ta 73 W 74 Re 75 Os 76 Ir 77 Pt 78	Ru 86
Au 79 Hg 80 Tl 81 Pb 82 Bi 83 Po 84 At 85	
Fr 87 Ra 88 Ac 104 Ns 105 106 107	
Ce 58 Pr 59 Nd 60 Pm 61 Sm 62 Eu 63 Gd 64 Tb 65 Dy 66 Ho 67 Er 68 Tm 69 Yb 70 Lu 71	
Th 90 Pa 91 U 92 Np 93 Pu 94 Am 95 Cm 96 Bk 97 Cf 98 Es 99 Fm 100 Md 101 No 102 Lr 103	

Particles 0

Isotopes

- 34-SE-77
- 34-SE-77-M
- 34-SE-78
- 34-SE-79
- 34-SE-79-M
- 34-SE-80
- 34-SE-81
- 34-SE-81-M
- 34-SE-82

Chemical Compounds

- 34-SE-CMP - Selenium compo...

Select

Select

ELEM/MASS

Cancel

Column: 12 Row: 62 Total: 71 Insert

33080.exf

Natural SeO2 (purity of 99.99%) (26-FE-56,NAT=0.9175)		
Natural Fe (purity of 99.99%)		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.5)	
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)	
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.9)	
MONIT-REF	(41298001,A.A.Filatkov+,R,R)	
METHOD	(ACTIV) Irradiated for 5400 s	
900 sec.		
(MOMIX) SeO2 and Fe powder (t		
packed in a polyethylene bag		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)5	
STATUS	(TABLE) Table II of Phys. I	
ENDBIB		
NOCOMMON		
DATA	3	5
EN	DATA	DATA-ERR
MEV	MB	MB
13.73	15.6	1.5
14.07	17.	1.6
14.42	18.6	1.6
14.68	20.4	1.7
14.77	22.	1.7
ENDDATA		
ENDDATA		
ENDSUBENT		
SUBENT	33080003	20191031
BIB		
REACTION		
SAMPLE		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
ENDENTRY		

Compress Clear

Pointer: 1 Add

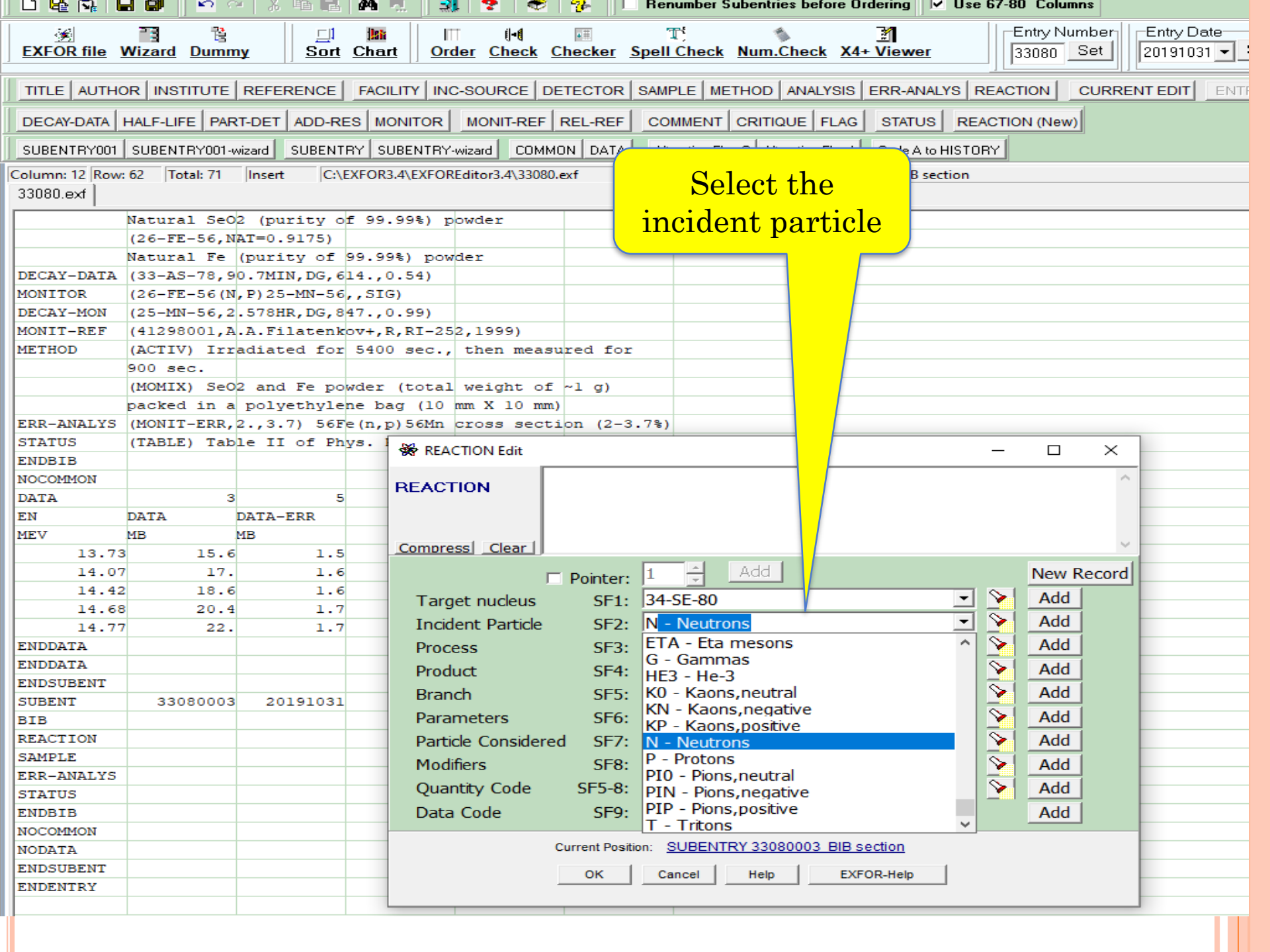
New Record

Target nucleus	SF1:		Add
Incident Particle	SF2:		Add
Process	SF3:		Add
Product	SF4:		Add
Branch	SF5:		Add
Parameters	SF6:		Add
Particle Considered	SF7:		Add
Modifiers	SF8:		Add
Quantity Code	SF5-8:		Add
Data Code	SF9:		Add

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help





Select the incident particle

**REACTION Edit**

**REACTION**

Compress Clear

Pointer: 1 Add

Target nucleus	SF1:	34-SE-80	Add
Incident Particle	SF2:	N - Neutrons	Add
Process	SF3:	ETA - Eta mesons	Add
Product	SF4:	G - Gammas	Add
Branch	SF5:	HE3 - He-3	Add
Parameters	SF6:	K0 - Kaons,neutral	Add
Particle Considered	SF7:	KN - Kaons,negative	Add
Modifiers	SF8:	KP - Kaons,positive	Add
Quantity Code	SF5-8:	N - Neutrons	Add
Data Code	SF9:	P - Protons	Add
		PI0 - Pions,neutral	Add
		PIN - Pions,negative	Add
		PIP - Pions,positive	Add
		T - Tritons	Add

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help

EXFOR file Wizard Dummy

Sort Chart

Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number 33080 Set

Entry Date 20191031

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA

Column: 12 Row: 62 Total: 71 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf 33080.exf

Natural SeO2 (purity of 99.99%) powder  
(26-FE-56,NAT=0.9175)  
Natural Fe (purity of 99.99%) powder  
(33-AS-78,90.7MIN,DG,614.,0.54)  
MONITOR (26-FE-56(N,P)25-MN-56,,SIG)  
DECAY-MON (25-MN-56,2.578HR,DG,847.,0.99)  
MONIT-REF (41298001,A.A.Filatenkov+,R,RI-252,1999)  
METHOD (ACTIV) Irradiated for 5400 sec., then measured for 900 sec.  
(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)  
ERR-ANALYS (MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)  
STATUS (TABLE) Table II of Phys.

EN	DATA	DATA-ERR
MEV	MB	MB
13.73	15.6	1.5
14.07	17.	1.6
14.42	18.6	1.6
14.68	20.4	1.7
14.77	22.	1.7

ENDDATA  
ENDDATA  
ENDSUBENT  
SUBENT 33080003 20191031  
BIB  
REACTION  
SAMPLE  
ERR-ANALYS  
STATUS  
ENDBIB  
NOCOMMON  
NODATA  
ENDSUBENT  
ENDENTRY

Renummer Subentries before Ordering     Use 67-80 Columns  
 EXFOR file    Wizard    Dummy    Sort    Chart    Order    Check    Checker    Spell Check    Num.Check    X4+ Viewer    Entry Number: 33080    Set    Entry Date: 20191031

TITLE | AUTHOR | INSTITUTE | REFERENCE | FACILITY | INC-SOURCE | DETECTOR | SAMPLE | METHOD | ANALYSIS | ERR-ANALYS | REACTION | CURRENT EDIT  
 DECAY-DATA | HALF-LIFE | PART-DET | ADD-RES | MONITOR | MONIT-REF | REL-REF | COMMENT | CRITIQUE | FLAG | STATUS | REACTION (New)  
 SUBENTRY001 | SUBENTRY001-wizard | SUBENTRY | SUBENTRY-wizard | COMMON | DATA | Alteration Flag C | Alteration Flag I | Code A to HISTORY

Column: 12 Row: 62 Total: 71 Insert C:\EXFOR\SUBENTRY 33080003 BIB section 33080.ext

	Natural SeO2 (purity of (26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.9175)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)		
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys.		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Select the process from the dictionary

REACTION Edit

REACTION

Compress | Clear

Pointer: 1 Add

Target nucleus SF1: 34-SE-80 Add  
 Incident Particle SF2: N - Neutrons Add  
 Process SF3: P - Protons Add  
 Product SF4: P - Protons Add  
 Branch SF5: PAI - Pair production Add  
 Parameters SF6: PI - Pions,unspecified Add  
 Particle Considered SF7: P10 - Pions,neutral Add  
 Modifiers SF8: PIN - Pions,negative Add  
 Quantity Code SF5-8: PIP - Pions,positive Add  
 Data Code SF9: SCT - Total scattering (elastic + inelastic) Add  
 T - Tritons Add  
 TCC - Total charge changing Add  
 THS - Thermal neutron scattering Add  
 TOT - Total Add  
 X - Process unspecified Add

Current Position

OK Cancel Help EXFOR-Help



Select the Reaction Product

Column: 12 Row: 62 Total: 71 Insert C:\EXFOR3.4\33080.exf

DECAY-DATA	(33-AS-78, 90.7MIN, DG, 614., 0.5)		
MONITOR	(26-FE-56 (N, P) 25-MN-56, , SIG)		
DECAY-MON	(25-MN-56, 2.578HR, DG, 847., 0.5)		
MONIT-REF	(41298001, A.A. Filatenkov+, R, E)		
METHOD	(ACTIV) Irradiated for 5400 s		
	900 sec.		
	(MOMIX) SeO2 and Fe powder (t		
	packed in a polyethylene bag		
ERR-ANALYS	(MONIT-ERR, 2., 3.7) 56Fe(n,p)		
STATUS	(TABLE) Table II of Phys. I		
ENDBIB			
NOCOMMON			
DATA		3	5
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Reaction Product (SF4)

Elements

H 1	He 2
Li 3 Be 4 B 5 C 6 N 7 O 8 F 9	Ne 10
Na 11 Mg 12 Al 13 Si 14 P 15 S 16 Cl 17	Ar 18
K 19 Ca 20 Sc 21 Ti 22 V 23 Cr 24 Mn 25 Fe 26 Co 27 Ni 28	Kr 36
Cu 29 Zn 30 Ga 31 Ge 32 As 33 Sc 34 Br 35	Xe 54
Rb 37 Sr 38 Y 39 Zr 40 Nb 41 Mo 42 Tc 43 Ru 44 Rh 45 Pd 46	Ru 86
Ag 47 Cd 48 In 49 Sn 50 Sb 51 Te 52 I 53	
Cs 55 Ba 56 La 57 Hf 72 Ta 73 W 74 Re 75 Os 76 Ir 77 Pt 78	
Au 79 Hg 80 Tl 81 Pb 82 Bi 83 Po 84 At 85	
Fr 87 Ra 88 Ac 89 Ku 104 Ns 105 106 107	
Ce 58 Pr 59 Nd 60 Pm 61 Sm 62 Eu 63 Gd 64 Tb 65 Dy 66 Ho 67 Er 68 Tm 69 Yb 70 Lu 71	
Th 90 Pa 91 U 92 Np 93 Pu 94 Am 95 Cm 96 Bk 97 Cf 98 Es 99 Fm 100 Md 101 No 102 Lr 103	

Particles 0

Isotopes

- 33-AS-77
- 33-AS-78
- 33-AS-79
- 33-AS-80
- 33-AS-81
- 33-AS-82
- 33-AS-82-M
- 33-AS-83
- 33-AS-84

Chemical Compounds

- 33-AS-CMP - Arsenic compound
- 33-AS-OXI - Arsenic oxide

Select

ELEM/MASS ELEM

MASS NPART

Cancel

Pointer: 1 Add

Target nucleus SF1: 34-SE-80 Add

Incident Particle SF2: N - Neutrons Add

Process SF3: P - Protons Add

Product SF4: Add

Branch SF5: Add

Parameters SF6: Add

Particle Considered SF7: Add

Modifiers SF8: Add

Quantity Code SF5-8: Add

Data Code SF9: Add

Current Position: SUBENTRY 33080003 BIB section

Select the parameter measured in the paper

Column: 12 Row: 62 Total: 71 Insert SUBENTRY 33080003 BIB section 33080.ext

Natural SeO2 (purity of 99.99%) powder (26-FE-56,NAT=0.9175)			
Natural Fe (purity of 99.99%) powder (33-AS-78,90.7MIN,DG,614.,0.54)			
DECAY-DATA (26-FE-56 (N,P)25-MN-56,,SIG)			
MONITOR (25-MN-56,2.578HR,DG,847.,0.99)			
DECAY-MON (41298001,A.A.Filatenkov+,R,RI-252,1999)			
MONIT-REF (ACTIV) Irradiated for 5400 sec., then measured for 900 sec.			
METHOD (MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)			
ERR-ANALYS (MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)			
STATUS (TABLE) Table II of Phys. Rev. C 19, 1077 (1979)			
ENDBIB			
NOCOMMON			
DATA	3	5	
EN DATA DATA-ERR			
MEV MB MB			
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Find SF6 Parameter

Text to Find:

Find Select Cancel

- SIF
- SIF/TMP
- SIG**
- SIG/DN
- SIG/RAT
- SIG/SUM
- SIG/TMP
- SPC
- SPC/DA
- STF
- TEM
- TRN

REACTION Edit

Compress Clear

Pointer: 1 Add

Target nucleus SF1: 34-SE-80 Add

Incident Particle SF2: N - Neutrons Add

Process SF3: P - Protons Add

Product SF4: 33-AS-80 Add

Branch SF5: Add

Parameters SF6: Add

Particle Considered SF7: Add

Modifiers SF8: Add

Quantity Code SF5-8: Add

Data Code SF9: Add

New Record

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 61 Total: 75 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section 33080.exf

MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)			
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)			
MONIT-REF	(41240001,A.A.Filatenkov+,R,RI-252,1999)			
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.			
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)			
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)			
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609			
ENDBIB				
NOCOMMON				
DATA		3	5	
EN	DATA		DATA-ERR	
MEV	MB		MB	
	13.73	15.6	1.5	
	14.07	17.	1.6	
	14.42	18.6	1.6	
	14.68	20.4	1.7	
	14.77	22.	1.7	
ENDDATA				
ENDSUBENT				
SUBENT	33080003	20190923		
BIB				
REACTION				
SAMPLE				
DECAY-DATA				
MONITOR				
DECAY-MON				
MONIT-REF				
METHOD				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDSUBENT				
ENDENTRY				

Press the "New Record" button

REACTION Edit

**REACTION**

Compress Clear

Reaction Fields: SF1 - SF4

Pointer ( Target Nucleus - SF1 ( Incident Particle - SF2 ( Process - SF3 ( Reaction Product - SF4 ( Add

Use 1 ( 34-SE-80 ( N - Neutrons ( P - Protons ( 33-AS-80

Search Search Search Search

Use 31th,32th,33th,34th DICTIONARIES Use 213th and 236th DICTIONARIES

Reaction Fields: SF5 - SF9

Branch - SF5 ( Parameter - SF6 ( Particles Consider - SF7 ( Modifiers - SF8 ( Data Type SF9 ( Add SF5-SF9

Search Search Search Search

Reaction Examples Reaction LEXFOR Help **New Record**

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help

	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)		
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys.		
ENDBIB			
NOCOMMON			
DATA	3		5
EN	DATA		DATA-ERR
MEV	MB		MB
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003		20191031
BIB			
REACTION			
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**REACTION Edit**

REACTION: (34-SE-80 (N, P) 33-AS-80,, SIG)

Compress Clear

Pointer: 1 Add

**New Record**

Target nucleus	SF1:	34-SE-80	<input type="text"/>	Add
Incident Particle	SF2:	N - Neutrons	<input type="text"/>	Add
Process	SF3:	P - Protons	<input type="text"/>	Add
Product	SF4:	33-AS-80	<input type="text"/>	Add
Branch	SF5:		<input type="text"/>	Add
Parameters	SF6:	SIG	<input type="text"/>	Add
Particle Considered	SF7:		<input type="text"/>	Add
Modifiers	SF8:		<input type="text"/>	Add
Quantity Code	SF5-8:		<input type="text"/>	Add
Data Code	SF9:		<input type="text"/>	Add

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help



	Natural SeO2 (purity of 99.99%) powder (26-FE-56,NAT=0.9175)			
	Natural Fe (purity of 99.99%) powder (33-AS-78,90.7MIN,DG,614.,0.54)			
DECAY-DATA				
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)			
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)			
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)			
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec. (MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)			
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)			
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609			
ENDBIB				
NOCOMMON				
DATA	3		5	
EN	DATA		DATA-ERR	
MEV	MB		MB	
	13.73	15.6	1.5	
	14.07	17.	1.6	
	14.42	18.6	1.6	
	14.68	20.4	1.7	
	14.77	22.	1.7	
ENDDATA				
ENDDATA				
ENDSUBENT				
SUBENT	33080003		20191031	
BIB				
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)			
SAMPLE				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDSUBENT				
ENENTRY				



**EDIT the SAMPLE**  
keyword and select the  
sample

 Column: 12 Row: 63 Total: 71 Insert C:\EXFOR3.4\EXFOREditor3.4\33080  
 33080.exf

	Natural SeO <sub>2</sub> (purity of 99.99%) powder (26-FE-56,NAT=0.9175)	
	Natural Fe (purity of 99.99%) powder	
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)	
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)	
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)	
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)	
METHOD	(ACTIV) Irradiated for 5400 sec., then meas 900 sec. (MOMIX) SeO <sub>2</sub> and Fe powder (total weight of packed in a polyethylene bag (10 mm X 10 mm	
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross sect	
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014)	
ENDBIB		
NOCOMMON		
DATA	3	5
EN	DATA	DATA-ERR
MEV	MB	MB
	13.73	15.6
	14.07	17.
	14.42	18.6
	14.68	20.4
	14.77	22.
ENDDATA		
ENDDATA		
ENDSUBENT		
SUBENT	33080003	20191031
BIB		
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)	
SAMPLE		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
ENDENTRY		

Nuclide Field

Elements

H 1																	He 2
Li 3	Be 4	B 5	C 6	N 7	O 8	F 9							Ne 10				
Na 11	Mg 12	Al 13	Si 14	P 15	S 16	Cl 17							Ar 18				
K 19	Ca 20	Sc 21	Ti 22	V 23	Cr 24	Mn 25	Fe 26	Co 27	Ni 28				Kr 36				
Cu 29	Zn 30	Ga 31	Ge 32	As 33	Sc 34	Br 35							Xe 54				
Rb 37	Sr 38	Y 39	Zr 40	Nb 41	Mo 42	Tc 43	Ru 44	Rh 45	Pd 46				Ru 86				
Ag 47	Cd 48	In 49	Sn 50	Sb 51	Te 52	I 53							Xe 54				
Cs 55	Ba 56	La 57	Hf 72	Ta 73	W 74	Re 75	Os 76	Ir 77	Pt 78				Ru 86				
Au 79	Hg 80	Tl 81	Pb 82	Bi 83	Po 84	At 85							Ru 86				
Fr 87	Ra 88	Ac 89	Ku 104	Ns 105	106	107							Ru 86				
Ce 58	Pr 59	Nd 60	Pm 61	Sm 62	Eu 63	Gd 64	Tb 65	Dy 66	Ho 67	Er 68	Tm 69	Yb 70	Lu 71				
Th 90	Pa 91	U 92	Np 93	Pu 94	Am 95	Cm 96	Bk 97	Cf 98	Es 99	Fm 100	Md101	No102	Lr103				

Isotopes

 34-SE-79  
 34-SE-79-M  
 34-SE-80  
 34-SE-81  
 34-SE-81-M  
 34-SE-82  
 34-SE-83  
 34-SE-83-M  
 34-SE-84

Select

Cancel

Target Descripti

SAMPLE:

Spell Checking

Compress | Clear

Data Modifier = RAB (SF8 under REACTION Keyword)

Nuclide Field

Search

Add

Abundance Field

NAT=

Add

New Record

Current Position: [SUBENTRY 33080003 BIB section](#)

OK

Cancel

Help

EXFOR-Help

Renumber Subentries before Ordering     Use 67-80 Columns

**EXFOR file Wizard Dummy**    **Sort Chart**    **Order Check Checker**    **Spell Check Num.Check X4+ Viewer**

Entry Number: 33080    Set    Entry Date: 20191031

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 63 Total: 71 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080003 BIB section 33080.exf

	Natural SeO2 (purity of 99.99%) powder (26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)		
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Write the Abundance value of sample

**Target Description**

**SAMPLE:**

Spell Checking    Compress    Clear

Data Modifier = RAB (SF8 and REACTION Keyword)

34-SE-80    Search    Add

NAT=    0.4961    Add    **New Record**

Current Position: SUBENTRY 33080003 BIB section

TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION	CURRENT EDIT	ENTRY Title
DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS	REACTION (New)		
SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COMMON	DATA	Alteration Flag C	Alteration Flag I	Code A					
Column: 12	Row: 63	Total: 71	Insert	C:\EXFOR3.4\EXFOREditor3.4\33080.exf				SUBENTRY 33080003 BIB s					
33080.exf													
	Natural SeO2 (purity of 99.99%) powder (26-FE-56,NAT=0.9175)												
	Natural Fe (purity of 99.99%) powder												
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)												
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)												
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)												
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)												
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec. (MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)												
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)												
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609												
ENDBIB													
NOCOMMON													
DATA		3		5									
EN	DATA		DATA-ERR										
MEV	MB		MB										
	13.73		15.6		1.5								
	14.07		17.		1.6								
	14.42		18.6		1.6								
	14.68		20.4		1.7								
	14.77		22.		1.7								
ENDDATA													
ENDDATA													
ENDSUBENT													
SUBENT		33080003		20191031									
BIB													
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)												
SAMPLE													
ERR-ANALYS													
STATUS													
ENDBIB													
NOCOMMON													
NODATA													
ENDSUBENT													
ENDENTRY													

Free text information about the SAMPLE

**Target Description** [X]

**SAMPLE:** (34-SE-80,NAT=0.4967)  
Natural SeO2 (purity of 99.99%) powder

Spell Checking [ ]  
Compress [ ] Clear [ ]

Data Modifier = RAB (SF8 under REACTION Keyword)

Nuclide Field: [ ] Search [ ] Add [ ]

Abundance Field: NAT= [ ] Add [ ] New Record [ ]

Current Position: [SUBENTRY 33080003 BIB section](#)

OK [ ] Cancel [ ] Help [ ] EXFOR-Help [ ]

Renumber Subentries before Ordering  Use 67-80 Columns

EXFOR file Wizard

Click on search to select the Monitor SAMPLE

Check Num.Check X4+ Viewer

Entry Number: 33080 Set

Entry Date: 20191031 Set

TITLE AUTHOR INST

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard

Column: 12 Row: 63 Total: 71 Insert C:\EXFOR3.4\EXFOReditor3.4\33080.exf

	Natural SeO2 (purity of 99.99%) powder (26-FE-56,NAT=0.9175)	
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)	
MONITOR	(26-FE-56 (N,P) 25-MN-56,,SIG)	
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)	
MONIT-REF	(41298001,A.A.Filatkov+,R,RI-252,1999)	
METHOD	(ACTIV) Irradiated for 5400 sec., then measured 900 sec. (MOMIX) SeO2 and Fe powder (total weight packed in a polyethylene bag (10 mm X 10 mm))	
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe (n,p) 56Mn cross section	
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014)	
ENDBIB		
NOCOMMON		
DATA		
EN	DATA	DATA-ERR
MEV	MB	MB
	13.73	15.6 1.5
	14.07	17. 1.6
	14.42	18.6 1.6
	14.68	20.4 1.7
	14.77	22. 1.7
ENDDATA		
ENDSUBENT		
SUBENT	33080003	20191031
BIB		
REACTION	(34-SE-80 (N,P) 33-AS-80,,SIG)	
SAMPLE		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
ENDENTRY		

He 2  
Ne 10  
Ar 18  
Kr 36  
Xe 54  
Ru 86

Ce 58 Pr 59 Nd 60 Pm 61 Sm 62 Eu 63 Gd 64 Tb 65 Dy 66 Ho 67 Er 68 Tm 69 Yb 70 Lu 71  
Th 90 Pa 91 U 92 Np 93 Pu 94 Am 95 Cm 96 Bk 97 Cf 98 Es 99 Fm 100 Md 101 No 102 Lr 103

Isotopes

9-F-14  
9-F-15  
9-F-16  
9-F-17  
9-F-18  
9-F-19  
9-F-20  
9-F-21  
9-F-22

Select

Cancel

Target Description

SAMPLE: (34-SE-80,NAT=0.4961)  
Natural SeO2 (purity of 99.99%) powder

Spell Checking

Compress  Clear

Data Modifier = RAB (SF8 under REACTION Keyword)

Nuclide Field

Abundance Field

NAT=  Add  New Record

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy
 Sort Chart
 Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set
 Entry Date: 20191031 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 63 Total: 71 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080003 BIB section

33080.exf

	Natural SeO2 (purity of 99.99%) powder (26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)		
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec. (MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Write the Abundance value of sample

Target Description

SAMPLE: (34-SE-80(N,P)33-AS-80,,SIG)  
Natural SeO2 (purity of 99.99%) powder

Spell Checking  
Compress Clear

Data Modifier = RAB (SF8 under REACTION Keyword)

Nuclide Field  
9-F-19 Search Add

Abundance Field  
NAT= 1. Add

New Record

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help

Renumber Subentries before Ordering  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20191031 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY T

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS REACTION (New)

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 63 Total: 71 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080003 BIB section 33080.exf

	Natural SeO2 (purity of 99.99%) powder (26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder (33-AS-78,90.7MIN,DG,614.,0.54)		
DECAY-DATA			
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)		
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec. (MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**Target Description**

**SAMPLE:** (34-SE-80,NAT=0.4961)  
Natural SeO2 (purity of 99.99%) powder  
(9-F-19,NAT=1.)

Spell Checking Compress Clear

Data Modifier = RAB (SF8 under REACTION Keyword)

Nuclide Field  
9-F-19 Search Add

Abundance Field  
NAT= 1. Add New Record

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help



Write the free text information about the SAMPLE

	Natural SeO2 (purity of 99.99%) powder (26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)		
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec. (MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**Target Description**

**SAMPLE:** (34-SE-80,NAT=0.4961  
Natural SeO2 (purity of 99.99%) powder  
(9-F-19,NAT=1.)  
CaF2 (purity of 99.99%) powder

Spell Checking Compress Clear

Data Modifier = RAB (SF8 under REACTION Keyword)

Nuclide Field  
9F-19 Search Add

Abundance Field  
NAT= 1. Add New Record

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help



TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION	CURRENT EI
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DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS	REACTION (New)
------------	-----------	----------	---------	---------	-----------	---------	---------	----------	------	--------	----------------

SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COMMON	DATA	Alteration Flag C	Alteration Flag I	Code A to HISTORY
-------------	--------------------	----------	-----------------	--------	------	-------------------	-------------------	-------------------

Column: 12 Row: 68 Total: 74 Insert C:\EXFOR3.4\EXFOREditor3.4\33080.exf SUBENTRY 33080003 BIB section

33080.exf

DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41298001,A.A.Filatenkov+,R,RI-252,1999)		
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm X 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20191031	
BIB			
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder (9-F-19,NAT=1.) CaF2 (purity of 99.99%) powder		
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Ch

ENTRY Date 190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMM

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Code A to HISTORY

Column: 11 Row: 66 Total: 78 Insert C:\exfdata-201610\EXFOREditor30\33080.exf 003 BIB section

33080.exf

METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.			
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)			
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)			
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609			
ENDBIB				
NOCOMMON				
DATA		3	5	
EN	DATA	DATA-ERR		
MEV	MB	MB		
	13.73	15.6	1.5	
	14.07	17.	1.6	
	14.42	18.6	1.6	
	14.68	20.4	1.7	
	14.77	22.	1.7	
ENDDATA				
ENDSUBENT				
SUBENT	33080003	20190923		
BIB				
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)			
SAMPLE	(34-SE-80,NAT=0.4961)			
	Natural SeO2 (purity of 99.99%) powder			
	(9-F-19,NAT=1.)			
	CaF2 (purity of 99.99%) powder			
DECAY-DATA				
MONITOR				
DECAY-MON				
MONIT-REF				
METHOD				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDSUBENT				
ENDENTRY				

Edit on DECAY-DATA keyword

**Decay Data Description**

**DECAY-DATA**

Spell Checking Compress Clear

Flag  Use Flag Flag Value: 1 Add

Nuclide Field  Search Add

Half-Life Field Number:  Unit:  Add

Radiation Field

SF1. Type of Radiation  Search Add

SF2. Energy  Add

SF3. Abundance  Add

New Record

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help

Column: 11 Row: 66 Total: 78 Insert C:\exfdata-201610\EXFOREditor30\3308003\3308003.BIB section  
 33080.ex

METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR, 2., 3.7) 56Fe (n,p) 56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION	(34-SE-80(N,P) 33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder (9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA			
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**EDIT the DECAY-DATA keyword and select the nuclide field**

## Nuclide Field

Elements

H 1	He 2
Li 3 Be 4 B 5 C 6 N 7 O 8 F 9	Ne 10
Na 11 Mg 12 Al 13 Si 14 P 15 S 16 Cl 17	Ar 18
K 19 Ca 20 Sc 21 Ti 22 V 23 Cr 24 Mn 25	Fe 26 Co 27 Ni 28
Cu 29 Zn 30 Ga 31 Ge 32 As 33 Sc 34 Br 35	Kr 36
Rb 37 Sr 38 Y 39 Zr 40 Nb 41 Mo 42 Tc 43	Ru 44 Rh 45 Pd 46
Ag 47 Cd 48 In 49 Sn 50 Sb 51 Te 52 I 53	Xe 54
Cs 55 Ba 56 La 57 Hf 72 Ta 73 W 74 Re 75	Os 76 Ir 77 Pt 78
Au 79 Hg 80 Tl 81 Pb 82 Bi 83 Po 84 At 85	Rn 86
Fr 87 Ra 88 Ac 89 Ku 104 Ns 105	106 107
Ce 58 Pr 59 Nd 60 Pm 61 Sm 62 Eu 63 Gd 64	Tb 65 Dy 66 Ho 67 Er 68 Tm 69 Yb 70 Lu 71
Th 90 Pa 91 U 92 Np 93 Pu 94 Am 95 Cm 96	Bk 97 Cf 98 Es 99 Fm 100 Md 101 No 102 Lr 103

Isotopes

 33-AS-77  
 33-AS-78  
 33-AS-79  
 33-AS-80  
 33-AS-81  
 33-AS-82  
 33-AS-82-M  
 33-AS-83  
 33-AS-84

Select

Cancel

Decay Data Description

DECAY-DATA

Spell Checking

Compress Clear

Flag

 Use Flag Flag Value: 1 Add

Nuclide Field

 Search Add

Half-Life Field

 Number:  Unit:  Add

Radiation Field

 SF1. Type of Radiation  SF2. Energy  SF3. Abundance  Add

Search Add

Add

Add

Add

New Record

Current Position: [SUBENTRY 33080003 BIB section](#)

OK

Cancel

Help

EXFOR-Help

Column: 11 Row: 66 Total: 78 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section 33080.exf

METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION	(34-SE-80 (N, P) 33-AS-80,, SIG)		
SAMPLE	(34-SE-80, NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder (9-F-19, NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA			
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Add the Half-Life value and select the unit

**Decay Data Description**

**DECAY-DATA**

Spell Checking  
Compress Clear

Flag  
 Use Flag Flag Value: 1 Add

Nuclide Field  
33-AS-80 Search Add

Half-Life Field  
Number: 15.2 Unit: SEC - seconds Add

Radiation Field  
SF1. Type of Radiation: S4 Add

- MICROSEC - microseconds
- MIN - minutes
- MSEC - milliseconds
- NSEC - nanoseconds
- D - days
- FSEC - femtoseconds
- HR - hours
- PSEC - picoseconds
- SEC - seconds
- YR - years (=365.2422 Days)

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help

METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR, 2., 3.7) 56Fe (n,p) 56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION	(34-SE-80 (N, P) 33-AS-80,, SIG)		
SAMPLE	(34-SE-80, NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder (9-F-19, NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA			
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Select the type of Radiation

**Decay Data Description**

**DECAY-DATA**

Spell Checking

Flag  Use Flag Flag Value:

Nuclide Field

Half-Life Field Number:  Unit:  - seconds

Radiation Field

SF1. Type of Radiation:	SF2. Energy	SF3. Abundance
<input type="text" value="DG"/> - Decay Gammas	<input type="text"/>	<input type="text"/>
<ul style="list-style-type: none"> <li><input type="checkbox"/> DG - Decay Gammas</li> <li><input type="checkbox"/> DN - Delayed Neutrons</li> <li><input type="checkbox"/> E - Electrons</li> <li><input type="checkbox"/> EC - Electron Capture</li> <li><input type="checkbox"/> ER - Evaporation Residues</li> <li><input type="checkbox"/> ETA - Eta mesons</li> <li><input type="checkbox"/> FF - Fission Fragments</li> <li><input type="checkbox"/> G - Gammas</li> <li><input type="checkbox"/> HE2 - He-2</li> <li><input type="checkbox"/> HE3 - He-3</li> <li><input type="checkbox"/> HF - Heavy Fragment</li> <li><input type="checkbox"/> ICE - Internal-Conversion Electrons</li> </ul>	<input type="button" value="Add"/>	<input type="button" value="Add"/>

003 BIB section

File Sections Keywords Edit Processing Tools Help

Renummer Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set    Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 66 Total: 78 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section

METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder (9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA			
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Write the energy (keV) and abundance values

Decay Data Description

DECAY-DATA

Spell Checking Compress Clear

Flag  Use Flag Flag Value: 1 Add

Nuclide Field 33-AS-80 Search Add

Half-Life Field Number: 15.2 Unit: SEC - seconds Add

Radiation Field SF1. Type of Radiation: DG - Decay Gammas SF2. Energy: 666 SF3. Abundance: 0.42 Search Add Add Add

New Record

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help

Press the new record button

METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION	(34-SE-80 (N,P) 33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder (9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA			
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Decay Data Description ✕

**DECAY-DATA** (33-AS-80,15.2SEC,DG,666.,0.42)

Use Flag    Flag Value:

Nuclide Field:

Half-Life Field: Number:  Unit:

Radiation Field:
 

SF1. Type of Radiation: <input type="text"/>	SF2. Energy: <input type="text"/>	SF3. Abundance: <input type="text"/>	<input type="button" value="Add"/>
<input type="button" value="Search"/>	<input type="button" value="Add"/>	<input type="button" value="Add"/>	

Current Position: [SUBENTRY 33080003 BIB section](#)



METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.			
	(MOMIX) SeO <sub>2</sub> and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)			
ERR-ANALYS	(MONIT-ERR, 2., 3.7) 56Fe(n,p)56Mn cross section (2-3.7%)			
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609			
ENDBIB				
NOCOMMON				
DATA	3	5		
EN	DATA	DATA-ERR		
MEV	MB	MB		
	13.73	15.6	1.5	
	14.07	17.	1.6	
	14.42	18.6	1.6	
	14.68	20.4	1.7	
	14.77	22.	1.7	
ENDDATA				
ENDSUBENT				
SUBENT	33080003	20190923		
BIB				
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)			
SAMPLE	(34-SE-80,NAT=0.4961)			
	Natural SeO <sub>2</sub> (purity of 99.99%) powder			
	(9-F-19,NAT=1.)			
	CaF <sub>2</sub> (purity of 99.99%) powder			
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)			
MONITOR				
DECAY-MON				
MONIT-REF				
METHOD				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDSUBENT				
ENDENTRY				

METHOD	(ACT		ed for
	900		
	(MON		1 g)
	pack		
ERR-ANALYS	(MONIT-ERR		ose(n,p) sum cross section (2-3.7
STATUS	(TABLE) Ta		Phys. Rev. C 90 (2014) 064609
ENDBIB			
NOCOMMON			
DATA		5	
EN	DATA		-ERR
MEV	MB		
	13.73		1.5
	14.07		1.6
	14.42		1.6
	14.68		1.7
	14.77		1.7
ENDDATA			
ENDSUBENT			
SUBENT		80003	20190923
BIB			
REACTION	(	SE-80 (N, P) 33-AS-80,, SIG)	
SAMPLE		SE-80, NAT=0.4961)	
		natural SeO2 (purity of 99.99%) powder	
		9-F-19, NAT=1.)	
		CaF2 (purity of 99.99%) powder	
DECAY-DAT		(33-AS-80, 15.2SEC, DG, 666., 0.42)	
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**EDIT the MONITOR keyword**

Standard Reference Data (Monitor)

**MONITOR**

Spell Checking Compress Clear

Options

- Use Pointer
- Use Heading Field
- Only Free Text

Reaction Field

Reaction Field SF1 - SF4

Target Nucleus  Search Add

Incident Particle  Search Add

Process  Search Add

Reaction Product  Search Add

Quantity field SF5 - SF8

Branch  Search Add

Parameter  Search Add

Particle Considered  Search Add

Modifier  Search Add

All Quantity Fields  Search Add

Data Type SF9  Add

**Monitor Code**

Current Position: [SUBENTRY 33080003 BIB section](#)

METHOD	(ACTIV) Irradiated for 5400 sec., then me	5400	sec.
	900 sec.		
	(MOMIX) SeO <sub>2</sub> and Fe powder (total weight of ~1 g)		
	packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA		3	5
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7

ENDDATA	
ENDSUBENT	
SUBENT	33080003 20190923
BIB	
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)
SAMPLE	(34-SE-80,NAT=0.4961)
	Natural SeO <sub>2</sub> (purity of 99.99%) powder
	(9-F-19,NAT=1.)
	CaF <sub>2</sub> (purity of 99.99%) powder
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)

 MONITOR  
 DECAY-MON  
 MONIT-REF  
 METHOD  
 ERR-ANALYS  
 STATUS  
 ENDBIB  
 NOCOMMON  
 NODATA  
 ENDSUBENT  
 ENDENTRY

Select the target nucleus using search

Target Elements

H 1	He 2
Li 3 Be 4 B 5 C 6 N 7 O 8 F 9	Ne 10
Na 11 Mg 12 Al 13 Si 14 P 15 S 16 Cl 17	Ar 18
K 19 Ca 20 Sc 21 Ti 22 V 23 Cr 24 Mn 25 Fe 26 Co 27 Ni 28	Kr 36
Cu 29 Zn 30 Ga 31 Ge 32 As 33 Se 34 Br 35	Xe 54
Rb 37 Sr 38 Y 39 Zr 40 Nb 41 Mo 42 Tc 43 Ru 44 Rh 45 Pd 46	Ru 86
Ag 47 Cd 48 In 49 Sn 50 Sb 51 Te 52 I 53	
Cs 55 Ba 56 La 57 Hf 72 Ta 73 W 74 Re 75 Os 76 Ir 77 Pt 78	
Au 79 Hg 80 Tl 81 Pb 82 Bi 83 Po 84 At 85	
Fr 87 Ra 88 Ac 89 Ku 104 Ns 105 106 107	
Ce 58 Pr 59 Nd 60 Pm 61 Sm 62 Eu 63 Gd 64 Tb 65 Dy 66 Ho 67 Er 68 Tm 69 Yb 70 Lu 71	
Th 90 Pa 91 U 92 Np 93 Pu 94 Am 95 Cm 96 Bk 97 Cf 98 Es 99 Fm 100 Md 101 No 102 Lr 103	

Particles 0

Options

Use Pointer

Use Heading Field

Only Free Text

Reaction Field

Reaction Field SF1 - SF4

Target Nucleus

Incident Particle

Process

Reaction Product

Parameter

Partide Considered

Modifier

All Quantity Fields

Data Type SF9

Monitor Code

New Record

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help

Isotopes

9-F-14
9-F-15
9-F-16
9-F-17
9-F-18
9-F-19
9-F-20
9-F-21
9-F-22

Select

Chemical Compounds

9-F-CMP - Fluorine compound

Select

ELEM/MASS

Cancel

33080.exf

METHOD	(ACTIV) Irradiated for 5400 sec., then measured for		
	al weight of ~1 g)		
	0 mm x 10 mm)		
ERR-ANALYS	n cross section (2-3.7)		
STATUS	C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder		
	(9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Select the incident particle

### Standard Reference Data (Monitor)

**MONITOR**

Spell Checking  
Compress Clear

Options  
 Use Pointer  
 Use Heading Field  
 Only Free Text

Reaction Field  
 Reaction Field SF1 - SF4  
 Target Nucleus  
 9-F-19 Search Add

Incident Particle  
 N - Neutrons Search Add  
 N - Neutrons  
 P - Protons  
 P10 - Pions,neutral  
 PIN - Pions,negative  
 PIP - Pions,positive  
 T - Tritons  
 1-H-0 - Natural hydrogen  
 1-H-1  
 1-H-2  
 1-H-3  
 1-H-4  
 1-H-5 Search Add

Quantity field SF5 - SF8  
 Branch  
 Search Add  
 Parameter  
 Search Add  
 Particle Considered  
 Search Add  
 Modifier  
 Search Add

All Quantity Fields  
 Search Add

Data Type SF9  
 Add

**Monitor Code**

New Record

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard Generation Flag I Code A to HISTORY

Column: 8 Row: 67 Total: 78 Insert C:\exfdata-201610\EXF... ENTRY 33080003 BIB section

33080.exf

METHOD (ACTIV) Irradiated for 5400 sec., then measured for 900 sec.  
 (MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)

ERR-ANALYS (MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7)

STATUS (TABLE) Table II of Phys. Rev. C 90 (2014) 064609

ENDBIB

NOCOMMON

DATA		3	5
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7

ENDDATA

ENDSUBENT

SUBENT 33080003 20190923

BIB

REACTION (34-SE-80(N,P)33-AS-80,,SIG)

SAMPLE (34-SE-80,NAT=0.4961)  
 Natural SeO2 (purity of 99.99%) powder  
 (9-F-19,NAT=1.)  
 CaF2 (purity of 99.99%) powder

DECAY-DATA (33-AS-80,15.2SEC,DG,666.,0.42)

MONITOR

DECAY-MON

MONIT-REF

METHOD

ERR-ANALYS

STATUS

ENDBIB

NOCOMMON

NODATA

ENDSUBENT

ENDENTRY

Select the process used

Reference Data (Monitor)

Optimize  
 Use Filter  
 Use Reading Field  
 Only the Text

Reaction field  
 Reaction field SF1 - SF4  
 Target nucleus  
 9-F-19 Search Add

Incident particle  
 N - Neutrons Search Add

Process  
 P - Protons Search Add  
 P - Protons  
 PI - Pions,unspecified  
 PIO - Pions,neutral  
 PIN - Pions,negative  
 PIP - Pions,positive  
 T - Tritons  
 1-H-0 - Natural hydrogen  
 1-H-1  
 1-H-2  
 1-H-3  
 1-H-4  
 1-H-5 Search Add

Quantity field SF5 - SF8  
 Branch Search Add  
 Parameter Search Add  
 Particle Considered Search Add  
 Modifier Search Add  
 All Quantity Fields Search Add  
 Data Type SF9 Add

Monitor Code

New Record

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help

Select the Reaction product by using search

TITLE	AUTHOR	SAMPLE	METHOD	ANALYSIS
DECAY-DATA				
SUBENTRY001				
COLUMN: 8	ROW: 67	TOTAL: 78	INSERT	C:\exfor\data-201610\EXFOR\Editor30\33080.exf
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.			
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)			
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.75)			
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609			
ENDBIB				
NOCOMMON				
DATA	3	5		
EN	DATA	DATA-ERR		
MEV	MB	MB		
	13.73	15.6	1.5	
	14.07	17.	1.6	
	14.42	18.6	1.6	
	14.68	20.4	1.7	
	14.77	22.	1.7	
ENDDATA				
ENDSUBENT				
SUBENT	33080003	20190923		
BIB				
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)			
SAMPLE	(34-SE-80,NAT=0.4961)			
	Natural SeO2 (purity of 99.99%) powder			
	(9-F-19,NAT=1.)			
	CaF2 (purity of 99.99%) powder			
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)			
MONITOR				
DECAY-MON				
MONIT-REF				
METHOD				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDSUBENT				

Reaction Product

Elements

H 1	He 2
Li 3	Be 4
B 5	C 6
N 7	O 8
F 9	Ne 10
Na 11	Mg 12
Al 13	Si 14
P 15	S 16
Cl 17	Ar 18
K 19	Ca 20
Sc 21	Ti 22
V 23	Cr 24
Mn 25	Fe 26
Co 27	Ni 28
Cu 29	Zn 30
Ga 31	Ge 32
As 33	Se 34
Br 35	Kr 36
Rb 37	Sr 38
Y 39	Zr 40
Nb 41	Mo 42
Tc 43	Ru 44
Rh 45	Pd 46
Ag 47	Cd 48
In 49	Sn 50
Sb 51	Te 52
I 53	Xe 54
Cs 55	Ba 56
La 57	Hf 58
Ta 59	W 60
Re 61	Os 62
Ir 63	Pt 64
Au 65	Hg 66
Tl 67	Pb 68
Bi 69	Po 70
At 71	Rn 72
Fr 73	Ra 74
Ac 75	Ku 76
Ns 77	106
107	

Particles: 0

Standard Reference

MONITOR

Options

Use Pointer

Use Heading Field

Only Free Text

Reaction Field

Reaction Field SF1 - SF

Target Nucleus

9-F-19 Search Add

Incident Particle

N - Neutrons Search Add

Process

P - Protons Search Add

Reaction Product

Search Add

Parameter

Search Add

Particle Considered

Search Add

Modifier

Search Add

All Quantity Fields

Search Add

Data Type SF9

Add

Isotopes

- 8-O-13
- 8-O-14
- 8-O-15
- 8-O-16
- 8-O-17
- 8-O-18
- 8-O-19
- 8-O-20
- 8-O-21

Select

Chemical Compounds

8-O-CMP - Oxygen compound

Select

ELEM/MASS ELEM

MASS NPART

Cancel

Monitor Code

New Record

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set    Entry Date: 20190923 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY002 COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 8 Row: 67 Total: 730\33080.exf SUBENTRY 33080003 BIB section

33080.exf

**Select the parameter**

METHOD	DATA	DATA-ERR	DATA-ERR
	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7

ENDDATA  
 ENDSUBENT  
 SUBENT 33080003 20190923  
 BIB  
 REACTION (34-SE-80 (N,P) 33-AS-80,,SIG)  
 SAMPLE (34-SE-80,NAT=0.4961)  
 Natural SeO2 (purity of 99.99%) powder  
 (9-F-19,NAT=1.)  
 CaF2 (purity of 99.99%) powder  
 DECAY-DATA (33-AS-80,15.2SEC,DG,666.,0.42)  
 MONITOR  
 DECAY-MON  
 MONIT-REF  
 METHOD  
 ERR-ANALYS  
 STATUS  
 ENDBIB  
 NOCOMMON  
 NODATA  
 ENDSUBENT  
 ENENTRY

Standard Reference Data (Monitor)

**MONITOR**

Use Pointer  
 Use Heading Field  
 Only Free Text

Reaction Field

Reaction Field SF1 - SF4

Target Nucleus: 9-F-19 Search Add

Incident Particle: N - Neutrons Search Add

Process: P - Protons Search Add

Reaction Product: 8-O-19 Search Add

Quantity field SF5 - SF8

Branch: Search Add

Parameter: SIG - Cross section Search Add

SPC - Intensity of discrete gamma-lines  
 STF - Strength function  
 STR - Strength  
 SUM - Sum  
 SwG - Statistical weight q  
 TEM - Nuclear temperature  
 TKE - Total kinetic energy  
 TMP - Temperature-dependent quantity  
 TRN - Transmission  
 TTT - Thick-target yield per unit time  
 TTY - Thick-target yield of the specified reaction pr

Monitor Code

New Record

Current Position: [SUBENTRY 33080003 BIB section](#)



Press the new record button

METHOD	(ACTIV) Irradiated for 5400 sec. when measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7 MeV)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014)		
ENDBIB			
NOCOMMON			
DATA		3	5
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION	(34-SE-80 (N, P) 33-AS-80,, SIG)		
SAMPLE	(34-SE-80, NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder (9-F-19, NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)		
MONITOR			
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Standard Reference Data (Monitor)

**MONITOR**

(9-F-19 (N, P) 8-O-19,, SIG)

Spell Checking Compress Clear

Use Header Field  Only Free Text

Reaction Field

Reaction Field SF1 - SF4

Target Nucleus  Search Add

Incident Particle  Search Add

Process  Search Add

Reaction Product  Search Add

Quantity field SF5 - SF8

Branch  Search Add

Parameter  Search Add

Particle Considered  Search Add

Modifier  Search Add

All Quantity Fields  Search Add

Data Type SF9  Add

**Monitor Code**

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help

METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.				
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)				
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7%)				
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609				
ENDBIB					
NOCOMMON					
DATA		3	5		
EN	DATA		DATA-ERR		
MEV	MB		MB		
	13.73	15.6	1.5		
	14.07	17.	1.6		
	14.42	18.6	1.6		
	14.68	20.4	1.7		
	14.77	22.	1.7		
ENDDATA					
ENDSUBENT					
SUBENT	33080003		20190923		
BIB					
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)				
SAMPLE	(34-SE-80,NAT=0.4961)				
	Natural SeO2 (purity of 99.99%) powder (9-F-19,NAT=1.)				
	CaF2 (purity of 99.99%) powder				
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)				
MONITOR	(9-F-19(N,P)8-O-19,,SIG)				
DECAY-MON					
MONIT-REF					
METHOD					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDSUBENT					
ENDENTRY					

Choose nuclide field using search

EXFOR file Wizard Du... Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190923 Set

TITLE AUTHOR INSTITU... SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wiz... DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 1 Row: 68 Total: 78 Insert C:\exfdata-201610\EXFO... 80.exf

SUBENTRY 33080003 BIB section

METHOD	(ACTIV) Irradiated for 5400 sec., th	red s
	900 sec.	
	(MOMIX) SeO2 and Fe powder (total wei	-1 g
	packed in a polyethylene bag (10 mm x	
ERR-ANALYS	(MONIT-ERR, 2., 3.7) 56Fe (n,p) 56Mn cross	on (
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2	5460
ENDBIB		
NOCOMMON		
DATA	3	5
EN	DATA	DATA-ERR
MEV	MB	MB
	13.73	15.6 1.5
	14.07	17. 1.6
	14.42	18.6 1.6
	14.68	20.4 1.7
	14.77	22. 1.7
ENDDATA		
ENDSUBENT		
SUBENT	33080003	20190923
BIB		
REACTION	(34-SE-80 (N, P) 33-AS-80,, SIG)	
SAMPLE	(34-SE-80, NAT=0.4961)	
	Natural SeO2 (purity of 99.99%)	
	(9-F-19, NAT=1.)	
	CaF2 (purity of 99.99%) powder	
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)	
MONITOR	(9-F-19 (N, P) 8-O-19,, SIG)	
DECAY-MON		
MONIT-REF		
METHOD		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDSUBENT		
ENDENTRY		

Nuclide Field

Elements

H 1	He 2
Li 3 Be 4 B 5 C 6 N 7 O 8 F 9	Ne 10
Na 11 Mg 12 Al 13 Si 14 P 15 S 16 Cl 17	Ar 18
K 19 Ca 20 Sc 21 Ti 22 V 23 Cr 24 Mn 25 Fe 26 Co 27 Ni 28	
Cu 29 Zn 30 Ga 31 Ge 32 As 33 Se 34 Br 35	Kr 36
Rb 37 Sr 38 Y 39 Zr 40 Nb 41 Mo 42 Tc 43 Ru 44 Rh 45 Pd 46	
Ag 47 Cd 48 In 49 Sn 50 Sb 51 Te 52 I 53	Xe 54
Cs 55 Ba 56 La 57 Hf 72 Ta 73 W 74 Re 75 Os 76 Ir 77 Pt 78	
Au 79 Hg 80 Tl 81 Pb 82 Bi 83 Po 84 At 85	Rn 86
Fr 87 Ra 88 Ac 89 Ku 104 Ns 105 106 107	
Ce 58 Pr 59 Nd 60 Pm 61 Sm 62 Eu 63 Gd 64 Tb 65 Dy 66 Ho 67 Er 68 Tm 69 Yb 70 Lu 71	
Th 90 Pa 91 U 92 Np 93 Pu 94 Am 95 Cm 96 Bk 97 Cf 98 Es 99 Fm 100 Md 101 No 102 Lr 103	

Isotopes

- 8-O-12
- 8-O-13
- 8-O-14
- 8-O-15
- 8-O-16
- 8-O-17
- 8-O-18
- 8-O-19
- 8-O-20

Select

Cancel

Decay Description

DECAY-M

Spell Check Compress

Heading  Use Heading

Nuclide Field  Search Add

Half-Life Field Number:  Unit:  Add

Radiation Field SF1. Type of Radiation  SF2. Energy  SF3. Abundance  Search Add Add Add

New Record

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help



File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190923

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 1 Row: 68 Total: 78 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section

METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR, 2., 3.7) 56Fe(n,p)56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3		5
EN	DATA		DATA-ERR
MEV	MB		MB
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDSUBENT			
SUBENT	33080003		20190923
BIB			
REACTION	(34-SE-80 (N, P) 33-AS-80, , SIG)		
SAMPLE	(34-SE-80, NAT=0.4961)		
	Natural SeO2 (purity of 99.99%)		
	(9-F-19, NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)		
MONITOR	(9-F-19 (N, P) 8-O-19, , SIG)		
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Select the type of radiations

Decay Data Description

DECAY-MON

Spell Checking Compress Clear

Heading  Use Heading Add

Nuclide Field 8-O-19 Search Add

Half-Life Field Number: 26.91 Unit: SEC - seconds Add

Radiation Field

SF1. Type of Radiation

- DG - Decay Gammas
- DN - Delayed Neutrons
- E - Electrons
- EC - Electron Capture
- ER - Evaporation Residues
- ETA - Eta mesons
- FF - Fission Fragments
- G - Gammas
- HE2 - He-2
- HE3 - He-3
- HF - Heavy Fragment
- ICE - Internal-Conversion Electrons

SF2. Energy Add

SF3. Abundance Add

New Record

003 BIB section

EXFOR-Help

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number 33080 Set Entry D 20190923

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 1 Row: 68 Total: 78 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section

METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR, 2., 3.7) 56Fe (n,p) 56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION	(34-SE-80 (N, P) 33-AS-80,, SIG)		
SAMPLE	(34-SE-80, NAT=0.4961)		
	Natural SeO2 (purity of 99.99%)		
	(9-F-19, NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)		
MONITOR	(9-F-19 (N, P) 8-O-19,, SIG)		
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Write the energy (keV) and abundance value

Decay Data Description

DECAY-MON

Spell Checking Compress Clear

Heading  Use Heading Add

Nuclide Field 8-O-19 Search Add

Half-Life Field Number: 26.91 Unit: SEC - seconds Add

Radiation Field SF1. Type of Radiation DG - Decay Gammas SF2. Energy 197 SF3. Abundance 0.96 Add Add Add

New Record

Press the new record button

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help



METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR, 2., 3.7) 56Fe (n,p) 56Mn cross section (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION	(34-SE-80 (N, P) 33-AS-80,, SIG)		
SAMPLE	(34-SE-80, NAT=0.4961)		
	Natural SeO2 (purity of 99.99%)		
	(9-F-19, NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)		
MONITOR	(9-F-19 (N, P) 8-O-19,, SIG)		
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**Decay Data Description** ✕

**DECAY-MON** (8-0-19, 26.91SEC, DG, 197., 0.96)

Use Heading

Nuclide Field:

Half-Life Field: Number:  Unit:

Radiation Field: SF1. Type of Radiation:

SF2. Energy:

SF3. Abundance:

Current Position: [SUBENTRY 33080003 BIB section](#)



File Sections Keywords Edit Processing Tools Help

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry D: 2019092

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 1 Row: 68 Total: 78 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section

METHOD	DATA	DATA-ERR	
MEV	MB	MB	
13.73	15.6	1.5	
14.07	17.	1.6	
14.42	18.6	1.6	
14.68	20.4	1.7	
14.77	22.	1.7	

ENDDATA  
ENDSUBENT  
SUBENT 33080003 20190923  
BIB  
REACTION (34-SE-80 (N,P) 33-AS-80,,SIG)  
SAMPLE (34-SE-80,NAT=0.4961)  
Natural SeO2 (purity of 99.99%  
(9-F-19,NAT=1.)  
CaF2 (purity of 99.99%) powder  
DECAY-DATA (33-AS-80,15.2SEC,DG,666.,0.42)  
MONITOR (9-F-19 (N,P) 8-O-19,,SIG)  
DECAY-MON  
MONIT-REF  
METHOD  
ERR-ANALYS  
STATUS  
ENDBIB  
NOCOMMON  
NODATA  
ENDSUBENT  
ENDENTRY

**If more than one decay gammas are available then again select the Type of Radiation**

Decay Data Description

DECAY-MON (8-O-19,26.91SEC,DG,197.,0.96)

Spell Checking  
Compress Clear

Heading  
 Use Heading

Nuclide Field  
Search Add

Half-Life Field  
Number: Unit: Add

Radiation Field  
SF1. Type of Radiation  

- DG - Decay Gammas
- DN - Delayed Neutrons
- E - Electrons
- EC - Electron Capture
- ER - Evaporation Residues
- ETA - Eta mesons
- FF - Fission Fragments
- G - Gammas
- HE2 - He-2
- HE3 - He-3
- HF - Heavy Fragment
- ICE - Internal-Conversion Electrons

SF2. Energy Add  
SF3. Abundance Add

New Record

003 BIB section  
EXFOR-Help

METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) 56Fe(n,p)56Mn cross section (2-3.7)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3		5
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDSUBENT			
SUBENT	33080003		20190923
BIB			
REACTION	(34-SE-80 (N,P) 33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%)		
	(9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19 (N,P) 8-O-19,,SIG)		
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

Write the Energy (keV) and Abundance value

**Decay Data Description** ✕

**DECAY-MON** (8-0-19,26.91SEC,DG,197.,0.96)

Spell Checking       

Heading:

Nuclide Field:

Half-Life Field:  Unit:

Radiation Field:
   
 SF1. Type of Radiation:

SF2. Energy:

SF3. Abundance:

Current Position: [SUBENTRY 33080003 BIB section](#)

	(MOMIX) SeO <sub>2</sub> and Fe powder (total weight of ~1 g)		
	packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR, 2., 3.7) cross section 56Fe(n,p)56Mn (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO <sub>2</sub> (purity of 99.99%) powder (9-F-19,NAT=1.)		
	CaF <sub>2</sub> (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19(N,P)8-O-19,,SIG)		
DECAY-MON			
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			

### Decay Data Description

**DECAY-MON** (8-O-19,26.91SEC,DG,197.,0.96, DG,1357.,0.504)

Spell Checking Compress Clear

Heading  Use Heading Add

Nuclide Field Search Add

Half-Life Field Number: Unit: Add

Radiation Field

SF1. Type of Radiation	SF2. Energy	SF3. Abundance	Add
Search Add	Add	Add	Add

New Record

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help


 Renumber Subentries before Ord

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS E

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I

Column: 11 Row: 70 Total: 79 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 330800 33080.exf

	(MOMIX) SeO <sub>2</sub> and Fe powder (total weight of ~1 g)			
	packed in a polyethylene bag (10 mm x 10 mm)			
ERR-ANALYS	(MONIT-ERR, 2., 3.7) cross section	56Fe (n,p) 56Mn (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C	90 (2014) 064609		
ENDBIB	15	0		
NOCOMMON	0	0		
DATA	3	5		
EN	DATA	DATA-ERR		
MEV	MB	MB		
	13.73	15.6	1.5	
	14.07	17.	1.6	
	14.42	18.6	1.6	
	14.68	20.4	1.7	
	14.77	22.	1.7	
ENDDATA	7	0		
ENDSUBENT	27	0		
SUBENT	33080003	20190923		
BIB	9	16		
REACTION	(34-SE-80 (N, P) 33-AS-80, , SIG)			
SAMPLE	(34-SE-80, NAT=0.4961)			
	Natural SeO <sub>2</sub> (purity of 99.99%) powder			
	(9-F-19, NAT=1.)			
	CaF <sub>2</sub> (purity of 99.99%) powder			
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)			
MONITOR	(9-F-19 (N, P) 8-O-19, , SIG)			
DECAY-MON	(8-O-19, 26.91SEC, DG, 197., 0.96,			
	DG, 1357., 0.504)			
MONIT-REF				
METHOD				
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				
NODATA				
ENDDATA				
ENDSUBENT				
ENDENTRY				

**EDIT the MONIT-REF keyword**

	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) cross section 56Fe(n,p)56Mn (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder (9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19(N,P)8-O-19,,SIG)		
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96, DG,1357.,0.504)		
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			

Information Input about Source Reference for Standrad Data

**MONIT-REF**

Spell Checking       

Heading Field

Subaccession# Field:         Author(Evaluator) Field:    

Reference Field

Reference Type:    

Edition (or Code):    

Number Reports/Preprint:     Author:

Vol:     Issue (Part):     Page (Paper#):     Date:    

Current Position: [SUBENTRY 33080003 BIB section](#)

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell

Entry Date

190927 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMP

EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COM

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C

Code A to HISTORY

Column: 11 Row: 70 Total: 79 Insert C:\exfdata-201610\EXFOREditor30\33080.exf

SUB 3 BIB section

33080.exf

	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR, 2., 3.7) cross section 56Fe(n,p)56Mn (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder (9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19(N,P)8-O-19,,SIG)		
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96, DG,1357.,0.504)		
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			

Add Subaccession field and Author Name

Information Input about Source Reference for Standard Data

**MONIT-REF**

Spell Checking Compress Clear

Heading Field

Subaccession# Field: 22824001 Add Author(Evaluator) Field: I.A.Reyhancan Add

Reference Field

Standard Reference Data Library

Reference Type: Journal

Edition (or Code): Search

Number( Reports/Preprint): Author:

Vol: Issue (Part): Page (Paper#): Date: New Record

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help



	(MOMIX) SeO2 and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR, 2., 3.7) cross section	56Fe(n,p)56Mn (2-3.7%)	
STATUS	(TABLE) Table II of Phys. Rev. C	90 (2014) 064609	
ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80 (N, P) 33-AS-80,, SIG)		
SAMPLE	(34-SE-80, NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder (9-F-19, NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)		
MONITOR	(9-F-19 (N, P) 8-O-19,, SIG)		
DECAY-MON	(8-O-19, 26.91SEC, DG, 197., 0.96, DG, 1357., 0.504)		
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			

Select Journal name from dictionary

Information Input about Source Reference for [data]

**MONIT-REF**

Spell Checking  Compress  Clear

Heading Field: [ ] Add

Subaccession# Field: 22824001 Add Author(Evaluator) Field: I.A.Reyhancan Add

Reference Field

Standard Reference  Data Library

Reference Type: Journal

Edition (or Code): ANE - Annals of Nucl.En.

Number Reports/Pre: [ ]

Vol: [ ]

- ANE - Annals of Nucl.En.
- ANP - Annalen der Physik
- ANS - Trans.Am.Nuc.Soc.
- ADS - Acta Onc.(Stockh.)
- AP - Annals of Physics
- APA - Acta Physica Austr.
- APL - Applied Phys.Lett.
- APP/A - Acta Phys.Polonica A
- APP/B - Acta Phys.Polonica B
- APPL/A - Applied Physics A
- APPL/B - Applied Physics B

Record



TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	INC-SOURCE	DETECTOR	SAMPLE	METHOD	ANALYSIS	ERR-ANALYS	REACTION	CURRENT EDIT	ENTRY Title
DECAY-DATA	HALF-LIFE	PART-DET	ADD-RES	MONITOR	MONIT-REF	REL-REF	COMMENT	CRITIQUE	FLAG	STATUS			
SUBENTRY001	SUBENTRY001-wizard	SUBENTRY	SUBENTRY-wizard	COMMON	DATA								
Column: 11	Row: 70	Total: 79	Insert	C:\exfdata-201610\EXFOREditor30\33080.exf									
	(MOMIX)	SeO2 and Fe powder (total weight of ~1 g)											
		packed in a polyethylene bag (10 mm x 10 mm)											
ERR-ANALYS	(MONIT-ERR,2.,3.7)	cross section	56Fe(n,p)56Mn (2										
STATUS	(TABLE)	Table II of Phys. Rev. C	90 (2014) 064609										
ENDBIB	15	0											
NOCOMMON	0	0											
DATA	3	5											
EN	DATA	DATA-ERR											
MEV	MB	MB											
	13.73	15.6	1.5										
	14.07	17.	1.6										
	14.42	18.6	1.6										
	14.68	20.4	1.7										
	14.77	22.	1.7										
ENDDATA	7	0											
ENDSUBENT	27	0											
SUBENT	33080003	20190923											
BIB	9	16											
REACTION	(34-SE-80 (N, P) 33-AS-80,, SIG)												
SAMPLE	(34-SE-80,NAT=0.4961)												
		Natural SeO2 (purity of 99.99%) powder											
		(9-F-19,NAT=1.)											
		CaF2 (purity of 99.99%) powder											
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)												
MONITOR	(9-F-19 (N, P) 8-O-19,, SIG)												
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,												
		DG,1357.,0.504)											
MONIT-REF													
METHOD													
ERR-ANALYS													
STATUS													
ENDBIB													
NOCOMMON													
NODATA													
ENDDATA													
ENDSUBENT													
ENDENTRY													

**EDIT the MONIT-REF keyword**

- Add subaccession number if exist
- Add author name
- Select the Reference type e.g . Journal
- Select Journal Name
- Add Volume Number, Page and Year

Information Input about Source Reference for Standrad Data

**MONIT-REF**

Spell Checking Compress Clear

Heading Field

Subaccession# Field: 22824001 Add Author(Evaluator) Field: I.A.Reyhancan Add

Reference Field

Standard Reference Data Library

Reference Type: Journal

Edition (or Code): ANE - Annals of Nucl.En. Search

Number( Reports/Preprint): Author:

Vol: 30 Issue (Part): Page (Paper#): 1001 Date: 2003 **New Record**

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set    Entry Date: 20190927 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 70 Total: 79 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section

	(MOMIX) SeO <sub>2</sub> and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR, 2., 3.7) cross section <sup>56</sup> Fe(n,p) <sup>56</sup> Mn (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80 (N, P) 33-AS-80, , SIG)		
SAMPLE	(34-SE-80, NAT=0.4961)		
	Natural SeO <sub>2</sub> (purity of 99.99%) powder (9-F-19, NAT=1.)		
	CaF <sub>2</sub> (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)		
MONITOR	(9-F-19 (N, P) 8-O-19, , SIG)		
DECAY-MON	(8-O-19, 26.91SEC, DG, 197., 0.96, DG, 1357., 0.504)		
MONIT-REF			
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			

Click on the "New Record" and Press the OK button

Information Input about Source Reference for Standrad Data

MONIT-REF (22824001, I. A. Reyhancan, J, ANE, 30, 1001, 2003)

Spell Checking       

Heading Field

Subaccession# Field: 22824001    Add    Author(Evaluator) Field: I.A.Reyhancan    Add

Reference Field

Standard Reference    Data Library

Reference Type: Journal

Edition (or Code): ANE - Annals of Nucl.En.    Search

Number Reports/Preprint:    Author:   

Vol: 30    Issue (Part):    Page (Paper#): 1001    Date: 2003   

Current Position: [SUBENTRY 33080003 BIB section](#)

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 71 Total: 79 Insert C:\exfdata-201610\EXFOREditor30\33080.exf

SUBENTRY 33080003 BIB section

33080.exf

	(MOMIX) SeO <sub>2</sub> and Fe powder (total weight of ~1 g)				
	packed in a polyethylene bag (10 mm x 10 mm)				
ERR-ANALYS	(MONIT-ERR, 2., 3.7) cross section <sup>56</sup> Fe(n,p) <sup>56</sup> Mn (2-3.7%)				
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609				
ENDBIB	15	0			
NOCOMMON	0	0			
DATA	3	5			
EN	DATA	DATA-ERR			
MEV	MB	MB			
	13.73	15.6	1.5		
	14.07	17.	1.6		
	14.42	18.6	1.6		
	14.68	20.4	1.7		
	14.77	22.	1.7		
ENDDATA	7	0			
ENDSUBENT	27	0			
SUBENT	33080003	20190923			
BIB	9	16			
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)				
SAMPLE	(34-SE-80,NAT=0.4961)				
	Natural SeO <sub>2</sub> (purity of 99.99%) powder				
	(9-F-19,NAT=1.)				
	CaF <sub>2</sub> (purity of 99.99%) powder				
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)				
MONITOR	(9-F-19(N,P)8-O-19,,SIG)				
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96, DG,1357.,0.504)				
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)				
METHOD					
ERR-ANALYS					
STATUS					
ENDBIB					
NOCOMMON					
NODATA					

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190927 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 71 Total: 79 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section 33080.exf

(MOMIX) SeO2 and Fe powder (total weight of ~1 g)  
packed in a polyethylene bag (10 mm x 10 mm)

ERR-ANALYS (MONIT-EP  
STATUS (TABLE)  
ENDBIB  
NOCOMMON  
DATA  
EN DATA  
MEV MB MB

13.73	15.6	
14.07	17.	
14.42	18.6	
14.68	20.4	
14.77	22.	7

ENDDATA  
ENDSUBENT  
SUBENT 33080003 190923  
BIB 16  
REACTION (34-SE-80,,33-AS-80,,SIG)  
SAMPLE (34-SE-80,,T=0.4961)  
Natural SeO2 (purity of 99.99%) powder  
(9-F-80,,T=1.)  
CaF2 (purity of 99.99%) powder  
DECAY-DATA (33-AS-80,15.2SEC,DG,666.,0.42)  
MONITOR (9-EP-19(N,P)8-O-19,,SIG)  
DECAY-MON (8-O-19,26.91SEC,DG,197.,0.96,  
DG,1357.,0.504)  
MONIT-REF (22824001,I.A.Reyhancan,J,ANE,30,1001,2003)  
METHOD  
ERR-ANALYS  
STATUS  
ENDBIB  
NOCOMMON  
NODATA

**EDIT the METHOD keyword**

Method edit

**METHOD**

Spell Checking Compress Clear

Dictionary

Search New Code Add to String

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help

Renumber Subentries before Ordering  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190927 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 71 Total: 79 Insert C:\exfdata-201610\EXFOReditor30\33080.exf SUBENTRY 33080003 BIB section 33080.exf

	(MOMIX) SeO2 and Fe powder (total weight of ~1 g)		
	packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR, 2., 3.7) cross section 56Fe(n,p)56Mn (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder		
	(9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19(N,P)8-O-19,,SIG)		
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,		
	DG,1357.,0.504)		
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)		
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			

Select the method used in paper

Method edit

**METHOD** Pneumatic sample transfer system used.

Spell Checking Compress Clear

Dictionary

ACTIV - Activation

ACTIV - Activation  
 AMS - Accelerator mass spectrometry  
 ASEP - Separation by mass-separator  
 ASPEC - Alpha spectrometry  
 ASSOP - Associated particle  
 BCINT - Beam current integrated  
 BGCT - Beta-gamma coincidence technique  
 BSPEC - Beta ray spectrometry  
 BURN - Burn-up (NEUT)  
 CADMB - Cadmium bath (NEUT)  
 CHARG - Measurements in gas discharge  
 CHRFL - Christiansen filter (NEUT)

Search New Code Add to String

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

 Entry Number  
33080 Set

 Entry Date  
20190927 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 71 Total: 79 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section

33080.exf

	(MOMIX) SeO <sub>2</sub> and Fe powder (total weight of ~1 g)		
	packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR, 2., 3.7) cross section	56Fe(n,p)56Mn (2-3.7%)	
STATUS	(TABLE) Table II of Phys. Rev. C	90 (2014) 064609	
ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO <sub>2</sub> (purity of 99.99%) powder		
	(9-F-19,NAT=1.)		
	CaF <sub>2</sub> (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19(N,P)8-O-19,,SIG)		
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,		
	DG,1357.,0.504)		
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)		
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			

- Press the “New Code” button
- Add important free text information regarding method

Method edit

**METHOD**

Pneumatic sample transfer system used.  
(ACTIV) Irradiated for 60 sec., then measured for 60 sec. |

Spell Checking  Compress  Clear

Dictionary  Search  New Code  Add to String

Current Position: SUBENTRY 33080003 BIB section

OK  Cancel  Help  EXFOR-Help



EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set

Entry Date: 20190927 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 71 Total: 79 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section

33080.exf

	(MOMIX) SeO2 and Fe powder (total weight of ~1 g)		
	packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR, 2., 3.7) cross section	56Fe(n,p)56Mn (2-3.7%)	
STATUS	(TABLE) Table II of Phys. Rev. C	90 (2014) 064609	
ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80 (N, P) 33-AS-80,, SIG)		
SAMPLE	(34-SE-80, NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder		
	(9-F-19, NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)		
MONITOR	(9-F-19 (N, P) 8-O-19,, SIG)		
DECAY-MON	(8-O-19, 26.91SEC, DG, 197., 0.96,		
	DG, 1357., 0.504)		
MONIT-REF	(22824001, I. A. Reyhancan, J, ANE, 30, 1001, 2003)		
METHOD			
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			

Select the 2<sup>nd</sup> method from the Dictionary

Method edit

**METHOD**

Pneumatic sample transfer system used for (ACTIV) Irradiated for 60 sec., then measured for 60 sec.

Spell Checking Compress Clear

Dictionary

MOMIX - Mixed monitor

MOMIX - Mixed monitor

MOSEP - Separate monitor foil

OLMS - On-line mass separation

PHD - Pulse-height discrimination

PLSED - Pulse die-away

PSD - Pulse-shape discrimination

REAC - Reactivity measurement (NEUT)

REC - Collection of recoils

REFL - Total reflection from mirrors (NEUT)

RELFY - Relative fission yield measurement (FY)

RINGR - Ring ratio method

RVAL - R-value measurement (FY)

Search New Code Add to String



Renumber Subentries before Ordering  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190927 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 71 Total: 79 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section 33080.exf

	(MOMIX) SeO2 and Fe powder (total weight of ~1 g)	
	packed in a polyethylene bag (10 mm x 10 mm)	
ERR-ANALYS	(MONIT-ERR,2.,3.7) cross section 56Fe(n,p)56Mn (2-3.7%)	
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609	
ENDBIB	15	0
NOCOMMON	0	0
DATA	3	5
EN	DATA	DATA-ERR
MEV	MB	MB
	13.73	15.6 1.5
	14.07	17. 1.6
	14.42	18.6 1.6
	14.68	20.4 1.7
	14.77	22. 1.7
ENDDATA	7	0
ENDSUBENT	27	0
SUBENT	33080003	20190923
BIB	9	16
REACTION	(34-SE-80 (N,P) 33-AS-80,, SIG)	
SAMPLE	(34-SE-80,NAT=0.4961)	
	Natural SeO2 (purity of 99.99%) powder	
	(9-F-19,NAT=1.)	
	CaF2 (purity of 99.99%) powder	
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)	
MONITOR	(9-F-19 (N,P) 8-O-19,, SIG)	
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96, DG,1357.,0.504)	
MONIT-REF	(22824001, I.A.Reyhancan, J, ANE, 30, 1001, 2003)	
METHOD		
ERR-ANALYS		
STATUS		
ENDBIB		
NOCOMMON		
NODATA		
ENDDATA		
ENDSUBENT		
ENDENTRY		

- Press the “New Code” button
- Add important free text information regarding method

Method edit

**METHOD**

Pneumatic sample transfer system used.  
(ACTIV) Irradiated for 60 sec., then measured for 60 sec.  
(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)

Spell Checking Compress Clear

Dictionary Search New Code Add to String

Current Position: [SUBENTRY 33080003 BIB section](#)

OK Cancel Help EXFOR-Help

	(MOMIX) SeO2 and Fe powder (total weight of ~1 g)			
	packed in a polyethylene bag (10 mm x 10 mm)			
ERR-ANALYS	(MONIT-ERR, 2., 3.7) cross section 56Fe(n,p)56Mn (2-3.7%)			
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609			
ENDBIB	15	0		
NOCOMMON	0	0		
DATA	3	5		
EN	DATA	DATA-ERR		
MEV	MB	MB		
	13.73	15.6	1.5	
	14.07	17.	1.6	
	14.42	18.6	1.6	
	14.68	20.4	1.7	
	14.77	22.	1.7	
ENDDATA	7	0		
ENDSUBENT	27	0		
SUBENT	33080003	20190923		
BIB	9	16		
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)			
SAMPLE	(34-SE-80,NAT=0.4961)			
	Natural SeO2 (purity of 99.99%) powder			
	(9-F-19,NAT=1.)			
	CaF2 (purity of 99.99%) powder			
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)			
MONITOR	(9-F-19(N,P)8-O-19,,SIG)			
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96, DG,1357.,0.504)			
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)			
METHOD	Pneumatic sample transfer system used.			
	(ACTIV) Irradiated for 60 sec., then measured for 60 sec.			
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)			
ERR-ANALYS				
STATUS				
ENDBIB				
NOCOMMON				

Renummer Subentries before Ordering     Use 67-80 Columns

EXFOR file    Wizard    Dummy    Sort    Chart    Order    Check    Checker    Spell Check    Num.Check    X4+ Viewer

Entry Number: 33080    Set    Entry Date: 20190927    Set

TITLE    AUTHOR    INSTITUTE    REFERENCE    FACILITY    INC-SOURCE    DETECTOR    SAMPLE    METHOD    ANALYSIS    ERR-ANALYS    REACTION    CURRENT EDIT    ENTRY Title

DECAY-DATA    HALF-LIFE    PART-DET    ADD-RES    MONITOR    MONIT-REF    REL-REF    COMMENT    CRITIQUE    FLAG    STATUS

SUBENTRY001    SUBENTRY001-wizard    SUBENTRY    SUBENTRY-wizard    COMMON    DATA    Alteration Flag C    Alteration Flag I    Code A to HISTORY

Column: 12 Row: 75 Total: 82 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section 33080.exf

```

ERR-ANALYS (MONIT-ERR,2.,3.7) cross section 56Fe(n,p)56Mn (2-3.7%)
STATUS (TABLE) Table II of Phys. Rev. C 90 (2014) 064609
ENDBIB 15 0
NOCOMMON 0 0
DATA 3 5
EN DATA DATA-ERR
MEV MB MB
13.73 15.6 1.5
14.07 17. 1.6
14.42 18.6 1.6
14.68 20.4 1.7
14.77 22. 1.7
ENDDATA 7 0
ENDSUBENT 27 0
SUBENT 33080003 20190923
BIB 9 16
REACTION (34-SE-80(N,P)33-AS-80,,SIG)
SAMPLE (34-SE-80,NAT=0.4961)
Natural SeO2 (purity of 99.99%) powder
(9-F-19,NAT=1.)
CaF2 (purity of 99.99%) powder
DECAY-DATA (33-AS-80,15.2SEC,DG,666.,0.000)
MONITOR (9-F-19(N,P)8-O-19,,SIG)
DECAY-MON (8-O-19,26.91SEC,DG,187.,0.96,
DG,187.,0.504)
MONIT-REF (22824001,I.A.Reiserman,J,ANE,30,1001,2003)
METHOD Pneumatic sample transfer system used.
(ACTIV) Irradiated for 60 sec., then measured for 60
sec.
(MOMIN) SeO2 and CaF2 powder (total weight of ~1 g)
ERR-ANALYS
STATUS
ENDBIB
NOCOMMON
NODATA
ENDDATA
ENDSUBENT
ENDENTRY
    
```

**EDIT the ERR-ANALYS keyword**

**Error Source Description**

**ERR-ANALYS**

Spell Checking    Compress    Clear

Dictionary: \_\_\_\_\_ Search    Add

Minimum Value, %    Add    Maximum Value, %    Add    Correlation Property    Add

**New Record**

Current Position: [SUBENTRY 33080003 BIB section](#)

EXFOR file Wizard Dummy

Sort Chart

Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number  
33080 SetEntry Date  
20190927 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 75 Total: 82 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section  
33080.exf

ERR-ANALYS	(MONIT-ERR,2.,3.7)	cross section	56Fe(n,p)56Mn (2-3.7%)
STATUS	(TABLE)	Table II of Phys. Rev. C	90 (2014) 064609
ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder		
	(9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19(N,P)8-O-19,,SIG)		
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,		
	DG,1357.,0.504)		
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)		
METHOD	Pneumatic sample transfer system.		
	(ACTIV) Irradiated for 60 sec., then measured for 40		
	sec.		
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)		
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			

Select the MONIT-ERR  
from the Dictionary

Error Source Description

**ERR-ANALYS**

Spell Checking Compress Clear

Dictionary

MONIT-ERR - Error in normalization value

MONIT-ERR - Error in normalization value

-MONIT-ERR - Unsymmetric error in value assumed for normalization

POL-BM-ERR - Beam polarization error

POL-TR-ERR - Target polarization error

Q-VAL-ERR - Q-value uncertainty

RATIO-ERR - Ratio error

-RATIO-ERR - Unsymmetric ratio error

RATIO-ERR1 - 1st ratio error

RATIO-ERR2 - 2nd ratio error

RATIO-ERR3 - 3rd ratio error

STAND1-ERR - Error in 1st standard value

STAND2-ERR - Error in 2nd standard value

Search Add

Add New Record

EXFOR file Wizard Dummy

Sort Chart

Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number  
33080 SetEntry Date  
20190927 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 75 Total: 82 Insert C:\exfdata-201610\EXFOREditor30\33080.exf

SUBENTRY 33080003 BIB section

33080.exf

ERR-ANALYS (MONIT-ERR,2.,3.7) cross section 56Fe(n,p)56Mn (2-3.7%)

STATUS (TABLE) Table II of Phys. Rev. C 90 (2014) 064609

ENDBIB 15 0

NOCOMMON 0 0

DATA 3 5

EN DATA DATA-ERR

MEV MB MB

13.73 15.6 1.5

14.07 17. 1.6

14.42 18.6 1.6

14.68 20.4 1.7

14.77 22. 1.7

ENDDATA 7 0

ENDSUBENT 27 0

SUBENT 33080003 20190923

BIB 9 16

REACTION (34-SE-80(N,P)33-AS-80,,SIG)

SAMPLE (34-SE-80,NAT=0.4961)

Natural SeO2 (purity of 99.99%) powder

(9-F-19,NAT=1.)

CaF2 (purity of 99.99%) powder

DECAY-DATA (33-AS-80,15.2SEC,DG,666.,0.42)

MONITOR (9-F-19(N,P)8-O-19,,SIG)

DECAY-MON (8-O-19,26.91SEC,DG,197.,0.96,

DG,1357.,0.504)

MONIT-REF (22824001,I.A.Reyhancan,J,ANE,30,1001,2003)

METHOD Pneumatic sample transfer system used.

(ACTIV) Irradiated for 60 sec., then measured for 60

sec.

(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)

ERR-ANALYS

STATUS

ENDBIB

NOCOMMON

NODATA

ENDDATA

ENDSUBENT

Write Minimum and  
Maximum value of error

Error Source Description

ERR-ANALYS

Spell Checking  
Compress Clear

Dictionary  
MONIT-ERR - Error in normalization value Search Add

Minimum Value, % Add 5.28 Add Maximum Value, % Correlation Property Add

New Record

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help



EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set Entry Date: 20190927 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 75 Total: 82 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section 33080.exf

ERR-ANALYS	(MONIT-ERR,,3.7)	cross section	56Fe (n,p) 56Mn (2-3.7%)
STATUS	(TABLE) Table II of Phys. Rev. C	90 (2014)	064609
ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80 (N,P) 33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder		
	(9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19 (N,P) 8-O-19,,SIG)		
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,		
	DG,1357.,0.504)		
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)		
METHOD	Pneumatic sample transfer system used.		
	(ACTIV) Irradiated for 60 sec., then measured for 60		
	sec.		
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)		
ERR-ANALYS			
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			

- Write the ERROR value.
- Press “New Record” button.
- Add the free text information.

Error Source Description

ERR-ANALYS (MONIT-ERR,,5.28) cross section 19F(n,p)190 (<5.28%)

Spell Checking Compress Clear

Dictionary MONIT-ERR - Error in normalization value Search Add

Minimum Value, % Add Maximum Value, % Add Correlation Property Add

5.28

New Record

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help

33080.exf

ERR-ANALYS	(MONIT-ERR, 2., 3.7)	cross section	56Fe (n,p) 56Mn (2-3.7%)		
STATUS	(TABLE) Table II of Phys. Rev. C	90 (2014)	064609		
ENDBIB	15	0			
NOCOMMON	0	0			
DATA	3	5			
EN	DATA	DATA-ERR			
MEV	MB	MB			
	13.73	15.6	1.5		
	14.07	17.	1.6		
	14.42	18.6	1.6		
	14.68	20.4	1.7		
	14.77	22.	1.7		
ENDDATA	7	0			
ENDSUBENT	27	0			
SUBENT	33080003	20190923			
BIB	9	16			
REACTION	(34-SE-80 (N, P) 33-AS-80,, SIG)				
SAMPLE	(34-SE-80, NAT=0.4961)				
	Natural SeO2 (purity of 99.99%) powder				
	(9-F-19, NAT=1.)				
	CaF2 (purity of 99.99%) powder				
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)				
MONITOR	(9-F-19 (N, P) 8-O-19,, SIG)				
DECAY-MON	(8-O-19, 26.91SEC, DG, 197., 0.96,				
	DG, 1357., 0.504)				
MONIT-REF	(22824001, I.A.Reyhancan, J, ANE, 30, 1001, 2003)				
METHOD	Pneumatic sample transfer system used.				
	(ACTIV) Irradiated for 60 sec., then measured for 60				
	sec.				
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)				
ERR-ANALYS	(MONIT-ERR,, 5.28)	cross section	19F (n,p) 19O (<5.28%)		
STATUS					
ENDBIB					
NOCOMMON					
NODATA					
ENDDATA					



```

33080.exf
ERR-ANALYS (MONIT-ERR,2.,3.7) cross section 56Fe(n,p)56Mn (2-3.7%)
STATUS (TABLE) Table II of Phys. Rev. C 90 (2014) 064609
ENDBIB 15 0
NOCOMMON 0 0
DATA 3 5
EN DATA DATA-ERR
MEV MB MB
13.73 15.6 1.5
14.07 17. 1.6
14.42 18.6 1.6
14.68 20.4 1.7
14.77 22. 1.7
ENDDATA 7 0
ENDSUBENT 27 0
SUBENT 33080003 20190923
BIB 9 16
REACTION (34-SE-80(N,P)33-AS-80,,SIG)
SAMPLE (34-SE-80,NAT=0.4961)
Natural SeO2 (purity of 99.9%)
(9-F-19,NAT=1.)
CaF2 (purity of 99.99%)
DECAY-DATA (33-AS-80,15.2SEC,DG,2)
MONITOR (9-F-19(N,P)8-O-19,
DECAY-MON (8-O-19,26.91SEC,0.96,
1357.,0.504)
MONIT-REF (22824001,I. J. Z. Phansan, J. ANE, 30, 1001, 2003)
METHOD Pneumatic sample transfer system used.
(ACTIV) irradiated for 60 sec., then measured for 60
sec.
(MONIT) SeO2 and CaF2 powder (total weight of ~1 g)
ERR-ANALYS (MONIT-ERR,,5.28) cross section 19F(n,p)19O (<5.28%)
STATUS
ENDBIB
NOCOMMON
NODATA
ENDDATA
ENDSUBENT
ENDENTRY
    
```

**EDIT the STATUS keyword**

Input of data status and actual value source

STATUS

Spell Checking Compress Clear

Dictionary

Search New Code Add to String

Subaccession:

Subentry Number (8-character): Add to String New Record

Additional Information about Data Source

Data were obtained from AUTHOR Add Information

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help

EXFOR file Wizard Dummy

Sort Chart

Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number  
33080 SetEntry Date  
20190927 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT ENTRY Title

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 11 Row: 76 Total: 82 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 BIB section 33080.exf

ERR-ANALYS	(MONIT-ERR,2,,3.7)	cross section	56Fe(n,p)56Mn (2-3.7%)
STATUS	(TABLE)	Table II of Phys. Rev. C	90 (2014) 064609
ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder		
	(9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19(N,P)8-O-19,,SIG)		
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,		
	DG,1357.,0.504)		
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)		
METHOD	Pneumatic sample transfer system used.		
	(ACTIV) Irradiated for 60 sec., then measured for 60 sec.		
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)		
ERR-ANALYS	(MONIT-ERR,,5.28)	cross section	19F(n,p)19O (<5.28%)
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			

## Edit the STATUS

Select the type of data presented in paper (Digitized Data (CURVE), Data provided by the Author, Data in tabulated form (TABLE))

Input of data status and act... source

**STATUS**

Spell Checking Compress Clear

Dictionary

TABLE - Data presented by authors

NDD - Data converted from NEUDADA file  
 OUTDT - Normalization out-of-date  
 PENTZ - Data converted from GMA input file of W.P.Poenitz  
 PRELM - Preliminary data  
 RCALC - Ratio to standard calculated by other than author  
 RIDER - Data converted from file of B.F.Rider  
 RNORM - Data renormalized by other than author  
 SCSRS - Data converted from SCISRS file  
 SGMBS - Data converted from Signabase  
 SPSDD - Data superseded  
 TABLE - Data presented by authors  
 UNOBT - Data unobtainable from author

Search New Code Add to String

Add to String New Record

Add Information

OK Cancel Help EXFOR-Help

ERR-ANALYS	(MONIT-ERR,,3.7)	cross section	56Fe(n,p)56Mn (2-3.7%)
STATUS	(TABLE)	Table II of Phys. Rev. C	90 (2014) 064609
ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder (9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19(N,P)8-O-19,,SIG)		
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96, DG,1357.,0.504)		
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)		
METHOD	Pneumatic sample transfer system used. (ACTIV) Irradiated for 60 sec., then measured for 60 sec. (MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)		
ERR-ANALYS	(MONIT-ERR,,5.28)	cross section	19F(n,p)19O (<5.28%)
STATUS			
ENDBIB			
NOCOMMON			
NODATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			

In free text Write Table Number or Figure Number, Journal Name, Volume, Year and Page Number

Input of data status and actual value source

**STATUS** (TABLE) Table II of Phys. Rev. C 90 (2014) 064609

Spell Checking Compress Clear

Dictionary

Subaccession: Subentry Number (8-character): Add to String New Record

Additional Information about Data Source  
Data were obtained from AUTHOR Add Information

Current Position: SUBENTRY 33080003 BIB section

OK Cancel Help EXFOR-Help

File Sections Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACT

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 12 Row: 78 Total: 82 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 No COMMON sect 33080.exf

ERR-ANALYS	(MONIT-ERR,2.,3.7) cross section	56Fe (n,p) 56Mn (2-3.7%)			
STATUS	(TABLE) Table II of Phys. Rev. C	90 (2014) 064609			
ENDBIB	15	0			
NOCOMMON	0	0			
DATA	3	5			
EN	DATA	DATA-ERR			
MEV	MB	MB			
	13.73	15.6	1.5		
	14.07	17.	1.6		
	14.42	18.6	1.6		
	14.68	20.4	1.7		
	14.77	22.	1.7		
ENDDATA	7	0			
ENDSUBENT	27	0			
SUBENT	33080003	20190923			
BIB	9	16			
REACTION	(34-SE-80 (N,P) 33-AS-80,,SIG)				
SAMPLE	(34-SE-80,NAT=0.4961)				
	Natural SeO2 (purity of 99.99%) powder				
	(9-F-19,NAT=1.)				
	CaF2 (purity of 99.99%) powder				
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)				
MONITOR	(9-F-19 (N,P) 8-O-19,,SIG)				
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96, DG,1357.,0.504)				
MONIT-REF	(22824001, I.A.Reyhancan, J,ANE, 30, 1001, 2003)				
METHOD	Pneumatic sample transfer system used.				
	(ACTIV) Irradiated for 60 sec., then measured for 60 sec.				
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)				
ERR-ANALYS	(MONIT-ERR,,5.28) cross section	19F(n,p)19O (<5.28%)			
STATUS	(TABLE) Table II of Phys. Rev. C	90 (2014 )064609			
ENDBIB					
NOCOMMON					
NODATA					
ENDDATA					
ENDSUBENT					

Sections | Edit | Processing | Tools | Help

Renumber Subentries before Ordering | Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ V

TITLE | AUTHOR | INSTITUTE | REFERENCE | FACILITY | INC-SOURCE | DETECTOR | SAMPLE | METHOD | ANALYSIS | EP

DECAY-DATA | HALF-LIFE | PART-DET | ADD-RES | MONITOR | MONIT-REF | REL-REF | COMMENT | CRITIQUE | FLAG | S

SUBENTRY001 | SUBENTRY001-wizard | SUBENTRY | SUBENTRY-wizard | COMMON | DATA | Alteration Flag C | Alteration Flag I | Code A to HIS

Column: 11 | Row: 79 | Total: 84 | Insert | C:\exfdata-201610\EXFOREditor30\33080.exf | SUBENTRY 33080003 DAT

33080.exf

EN	DATA	DATA-ERR		
ENDBIB	15	0		
NOCOMMON	0	0		
DATA	3	5		
EN	DATA	DATA-ERR		
MEV	MB	MB		
	13.73	15.6	1.5	
	14.07	17.	1.6	
	14.42	18.6	1.6	
	14.68	20.4	1.7	
	14.77	22.	1.7	
ENDDATA	7	0		
ENDSUBENT	27	0		
SUBENT	33080003	20190923		
BIB	9	16		
REACTION	(34-SE-80 (N,P) 33-AS-80,,SIG)			
SAMPLE	(34-SE-80,NAT=0.4961)			
	Natural SeO2 (purity of 99.99%) powder			
	(9-F-19,NAT=1.)			
	CaF2 (purity of 99.99%) powder			
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)			
MONITOR	(9-F-19 (N,P) 8-O-19,,SIG)			
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,			
	DG,1357.,0.504)			
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)			
METHOD	Pneumatic sample transfer system used.			
	(ACTIV) Irradiated for 60 sec., then measured for 60			
	sec.			
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)			
ERR-ANALYS	(MONIT-ERR,,5.28) cross section 19F(n,p)190 (<5.28%)			
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014 )064609			
ENDBIB				
NOCOMMON				
DATA				
ENDDATA				
ENDSUBENT				
ENDENTRY				
ENDENTRY				

Edit on NODATA keyword

Data Table

1					

**Current Subentry**  
33080003

**DATA**

Import | Sort

Paste | Chart

Clear | Check

**Column**

Add | Insert

Copy | Delete

Rename

Move Left | Move Right

Calculations

Set Value

Set Precision

**Row**

Add | Insert

Copy | Delete

Move Up | Move Down

**Undo**

Undo Last Action

**Table**

Precision for Table

Clear Data Table

Export Data Table

Add Data Table

Cancel

EXFOR-Help

Help

ENDBIB	15	0
NOCOMMON	0	0
DATA	3	5
EN	DATA	DATA-ERR
MEV	MB	MB
13.73	15.6	1.5
14.07	17.	1.6
14.42	18.6	1.6
14.68	20.4	1.7
14.77	22.	1.7
ENDDATA	7	0
ENDSUBENT	27	0
SUBENT	33080003	20190923
BIB	9	16
REACTION	(34-SE-80 (N,P) 33-AS-80,,SIG)	
SAMPLE	(34-SE-80,NAT=0.4961)	
	Natural SeO2 (purity of 99.99%) powder	
	(9-F-19,NAT=1.)	
	CaF2 (purity of 99.99%) powder	
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)	
MONITOR	(9-F-19 (N,P) 8-O-19,,SIG)	
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,	
	DG,1357.,0.504)	
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)	
METHOD	Pneumatic sample transfer system used.	
	(ACTIV) Irradiated for 60 sec., then measured for 60	
	sec.	
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)	
ERR-ANALYS	(MONIT-ERR,,5.28) cross section 19F(n,p)19O (<5.28%)	
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014 )064609	
ENDBIB		
NOCOMMON		
DATA		
ENDDATA		
ENDSUBENT		
ENENTRY		
ENENTRY		

Edit on the Data and click on add column , select heading

Data Table

1	

Column Title for Data Table

Heading : EN - Energy of incident projectile, laboratory system

Units : EN - Energy of incident projectile, laboratory system

- EN-APRX - Approximate value of incident projectile energy
- EN-CM - Sum of projectile and target energies in c.m.s.
- EN-CM-MAX - Upper limit of c.m. incident projectile energy range
- EN-CM-MIN - Lower limit of c.m. incident projectile energy range
- EN-CM-NRM - Inc.proj. energy [in c.m.] Used for normalization
- EN-DN - Incident energy for REACTION ratio denominator
- EN-NRM - Incident projectile energy Used for normalization
- EN-NRM-MAX - Upper limit of incident en. range for normalization
- EN-NRM-MIN - Lower limit of incident en. range for normalization
- EN-NRM-RSL - Energy resolution of normalization incident energy
- EN-NRM1 - 1st incident proj.en. for normalization, see MONITOR

Current Subentry  
**33080003**

**DATA**

Import Sort  
Paste Chart  
Clear Check

**Column**

Add Insert  
Copy Delete  
Rename  
Move Left Move Right  
Calculations  
Set Value  
Set Precision

**Row**

Add Insert  
Copy Delete  
Move Up Move Down

**Undo**

Undo Last Action

**Table**

Precision for Table  
Clear Data Table  
Export Data Table  
Add Data Table  
Cancel

EXFOR-Help  
Help



Select the unit of incident energy

ENDBIB		15	0
NOCOMMON		0	0
DATA		3	5
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80 (N,P) 33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder		
	(9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19 (N,P) 8-O-19,,SIG)		
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,		
	DG,1357.,0.504)		
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)		
METHOD	Pneumatic sample transfer system used.		
	(ACTIV) Irradiated for 60 sec., then measured for 60		
	sec.		
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)		
ERR-ANALYS	(MONIT-ERR,,5.28) cross section 19F(n,p)190 (<5.28%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014 )064609		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			
ENDENTRY			

Data Table

1	

Column Title for Data Table

Heading : EN - Energy of incident projectile, laboratory system

Units : MEV - MeV

- NANO-EV - nano-Electron-Volts
- EV - electron-Volts
- GEV - GeV
- GEV/A - GeV per mass number
- KEV - keV
- MEV - MeV
- MEV/A - MeV per mass number
- TEV - tera-Electron-Volts

Current Subentry  
**33080003**

DATA

Import Sort

Paste Chart

Clear Check

Column

Add Insert

Copy Delete

Rename

Move Left Move Right

Calculations

Set Value

Set Precision

Row

Add Insert

Copy Delete

Move Up Move Down

Undo

Undo Last Action

Table

Precision for Table

Clear Data Table

Export Data Table

Add Data Table

Cancel

EXFOR-Help

Help



ERR-ANALYS	(MONIT-ERR,2.,3.7)	56Fe (n,p)56Mn	cross section (2-3.7%)
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014)	064609	
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION	(34-SE-80 (N,P)33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder		
	(9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19 (N,P)8-O-19,,SIG)		
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96		
	DG,1357.,0.504)		
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)		
METHOD	Pneumatic sample transfer system used.		
	(ACTIV) Irradiated for 60 sec., then measured for 60		
	sec.		
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)		
ERR-ANALYS	(MONIT-ERR,,5.28) 19F(n,p)19O	cross section (<5.28%)	
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014)	064609	
ENDBIB			
NOCOMMON			
NODATA			
ENDSUBENT			
ENDENTRY			

**Data Table**

EN	
MEV	
1	

**Current Subentry**  
33080003

**DATA**

Import Sort  
Paste Chart  
Clear Check

**Column**

Add Insert  
Copy Delete  
Rename  
Move Left Move Right  
Calculations  
Set Value  
Set Precision

**Row**

Add Insert  
Copy Delete  
Move Up Move Down

**Undo**

Undo Last Action

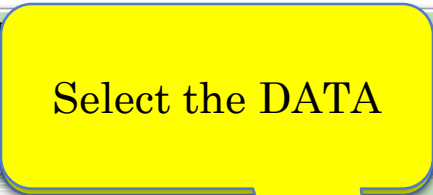
**Table**

Precision for Table  
Clear Data Table  
Export Data Table  
Add Data Table  
Cancel

EXFOR-Help  
Help

Columns Entry Number: 080 Set Entry Date: 20190927 Set

EXFOR file Wizard Dummy Sort Chart Order Check Checker Sp



TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR S

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I

Column: 11 Row: 79 Total: 84 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003

ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
13.73	15.6	1.5	
14.07	17.	1.6	
14.42	18.6	1.6	
14.68	20.4	1.7	
14.77	22.	1.7	
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80 (N,P) 33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder		
	(9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19(N,P) 8-O-19,,SIG)		
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,		
	DG,1357.,0.504)		
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)		
METHOD	Pneumatic sample transfer system used.		
	(ACTIV) Irradiated for 60 sec., then measured for 60		
	sec.		
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)		
ERR-ANALYS	(MONIT-ERR,,5.28) cross section 19F(n,p)190 (<5.28%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			
ENDENTRY			

Data Table

EN
MEV
1

Current Subentry: 33080003

DATA Import Sort Paste Chart Clear Check

Column Add Insert Delete name Move Right Relations Value Precision Add Insert Copy Delete Move Up Move Down

Undo Undo Last Action

Table Precision for Table Clear Data Table Export Data Table Add Data Table Cancel

EXFOR-Help Help

Column Title for Data Table

Heading: DATA - Value of quantity specified under REACTION

Units: DATA - Value of quantity specified under REACTION

- DATA-APRX - Approximate value of quantity specif. under REACTION
- DATA-CM - Value of quantity specif. under REACTION, c.m. sys.
- DATA-ERR - Error in value of quantity, defined under ERR-ANALYS
- DATA-ERR1 - 1st data uncertainty, defined under ERR-ANALYS
- DATA-ERR2 - 2nd data uncertainty, defined under ERR-ANALYS
- DATA-ERR3 - 3rd data uncertainty, defined under ERR-ANALYS
- DATA-ERR4 - 4th data uncertainty, defined under ERR-ANALYS
- DATA-ERR5 - 5th data uncertainty, defined under ERR-ANALYS
- DATA-ERR6 - 6th data uncertainty, defined under ERR-ANALYS
- DATA-MAX - Upper limit of quantity specified under REACTION
- DATA-MIN - Lower limit of quantity specified under REACTION

ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
13.73	15.6	1.5	
14.07	17.	1.6	
14.42	18.6	1.6	
14.68	20.4	1.7	
14.77	22.	1.7	
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80 (N, P) 33-AS-80,, SIG)		
SAMPLE	(34-SE-80, NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder		
	(9-F-19, NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)		
MONITOR	(9-F-19 (N, P) 8-O-19,, SIG)		
DECAY-MON	(8-O-19, 26.91SEC, DG, 197., 0.96,		
	DG, 1357., 0.504)		
MONIT-REF	(22824001, I. A. Reyhancan, J, ANE, 30, 1001, 2003)		
METHOD	Pneumatic sample transfer system used.		
	(ACTIV) Irradiated for 60 sec., then measured for 60		
	sec.		
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)		
ERR-ANALYS	(MONIT-ERR,, 5.28) cross section 19F(n,p)19O (<5.28%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			
ENDENTRY			

Select the DATA unit

Data Table

EN
MEV
1

**Current Subentry**  
33080003

**DATA**

Import	Sort
Paste	Chart
Clear	Check

**Column**

Add	Insert
Delete	Delete
Search	name
Move Right	relations
Value	Value
precision	precision

Add	Insert
Copy	Delete
Move Up	Move Down

**Undo**

Undo Last Action

**Table**

Precision for Table

Clear Data Table

Export Data Table

Add Data Table

Cancel

EXFOR-Help

Help

Column Title for Data Table

Heading: DATA - Value of quantity specified under REACTION

Units: MB - millibarns

- MB - millibarns
- MB\*EV - millibarns \* eV
- MB\*EV-SQ - millibarns \* eV-squared
- MB\*MEV - millibarns \* MeV
- MB\*MEV/SR - millibarns\*MeV per steradian
- MB\*MILLIEV - millibarns \* milli-eV
- MB\*RT-EV - millibarns \* square-root(eV)
- MB/EV - millibarns per eV

33080.exf

ENDBIB		15	0
NOCOMMON		0	0
DATA		3	5
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA		7	0
ENDSUBENT		27	0
SUBENT	33080003	20190923	
BIB		9	16
REACTION	(34-SE-80 (N, P) 33-AS-80, , SIG)		
SAMPLE	(34-SE-80, NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder		
	(9-F-19, NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)		
MONITOR	(9-F-19 (N, P) 8-O-19, , SIG)		
DECAY-MON	(8-O-19, 26.91SEC, DG, 197., 0.96,		
	DG, 1357., 0.504)		
MONIT-REF	(22824001, I.A.Reyhancan, J, ANE, 30, 1001, 2003)		
METHOD	Pneumatic sample transfer system used.		
	(ACTIV) Irradiated for 60 sec., then measured for 60		
	sec.		
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)		
ERR-ANALYS	(MONIT-ERR, 5.28) cross section 19F(n,p)190 (<5.28%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014 )064609		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			
ENDENTRY			

Data Table

EN	DATA
MEV	MB
1	

**Current Subentry**  
33080003

**DATA**

**Column**

**Row**

**Undo**

**Table**

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to H

 Column: 11 Row: 79 Total: 84 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 DATA s  
 33080.exf

ENDBIB	15	0	
NOCOMMON	0	0	
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA	7	0	
ENDSUBENT	27	0	
SUBENT	33080003	20190923	
BIB	9	16	
REACTION	(34-SE-80 (N,P) 33-AS-80,, SIG)		
SAMPLE	(34-SE-80, NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder		
	(9-F-19, NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)		
MONITOR	(9-F-19 (N,P) 8-O-19,, SIG)		
DECAY-MON	(8-O-19, 26.91SEC, DG, 197., 0.96,		
	DG, 1357., 0.504)		
MONIT-REF	(22824001, I.A.Reyhancan, J, ANE, 30, 1001, 2003)		
METHOD	Pneumatic sample transfer system used.		
	(ACTIV) Irradiated for 60 sec., then measured for 60		
	sec.		
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)		
ERR-ANALYS	(MONIT-ERR, 5.28) cross section 19F(n,p)190 (<5.28%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014 )064609		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			
ENDENTRY			

Data Table

EN	DATA
MEV	MB
1	

Again click on add column for 3<sup>rd</sup> heading and select (DATA-ERR)

Column Title for Data Table

Heading: DATA-ERR - Error in value of quantity, defined under ERR-ANALYS

Units:

- DATA-ERR - Error in value of quantity, defined under ERR-ANALYS
- DATA-ERR1 - 1st data uncertainty, defined under ERR-ANALYS
- DATA-ERR2 - 2nd data uncertainty, defined under ERR-ANALYS
- DATA-ERR3 - 3rd data uncertainty, defined under ERR-ANALYS
- DATA-ERR4 - 4th data uncertainty, defined under ERR-ANALYS
- DATA-ERR5 - 5th data uncertainty, defined under ERR-ANALYS
- DATA-ERR6 - 6th data uncertainty, defined under ERR-ANALYS
- DATA-MAX - Upper limit of quantity specified under REACTION
- DATA-MIN - Lower limit of quantity specified under REACTION
- DATA-MN-CM - Lower lim. of quant. specif. under REACTION, c.m.sys.
- DATA-MX-CM - Upper lim. of quant. specif. under REACTION, c.m.sys.
- DCNST - Decay constant

Current Subentry  
33080003

DATA

 Import Sort  
 Paste Chart  
 Clear Check

Column

 Add Insert  
 Delete  
 Search name  
 Move Right  
 Relations  
 Value  
 Decision  
 Add Insert  
 Copy Delete  
 Move Up Move Down

Undo

Undo Last Action

Table

 Precision for Table  
 Clear Data Table  
 Export Data Table  
 Add Data Table  
 Cancel

EXFOR-Help

Help

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code Alteration Form

Column: 11 Row: 79 Total: 84 Insert C:\exfdata-201610\EXFOReditor30\33080.exf SUBENTRY 33080003 DATA section

33080.exf

ENDBIB	15	0		
NOCOMMON	0	0		
DATA	3	5		
EN	DATA	DATA-ERR		
MEV	MB	MB		
13.73	15.6	1.5		
14.07	17.	1.6		
14.42	18.6	1.6		
14.68	20.4	1.7		
14.77	22.	1.7		
ENDDATA	7	0		
ENDSUBENT	27	0		
SUBENT	33080003	20190923		
BIB	9	16		
REACTION	(34-SE-80 (N,P) 33-AS-80,,SIG)			
SAMPLE	(34-SE-80,NAT=0.4961)			
	Natural SeO2 (purity of 99.99%) powder (9-F-19,NAT=1.)			
	CaF2 (purity of 99.99%) powder			
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)			
MONITOR	(9-F-19 (N,P) 8-O-19,,SIG)			
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96, DG,1357.,0.504)			
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)			
METHOD	Pneumatic sample transfer system used. (ACTIV) Irradiated for 60 sec., then measured for 60 sec. (MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)			
ERR-ANALYS	(MONIT-ERR,,5.28) cross section 19F(n,p)190 (<5.28%)			
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014 )064609			
ENDBIB				
NOCOMMON				
DATA				
ENDDATA				
ENDSUBENT				
ENDENTRY				
ENDENTRY				

 Select the unit  
of DATA-ERR

Data Table

EN	DATA
MEV	MB
1	

Column Title for Data Table

Heading : DATA-ERR - Error in value of quantity, defined under ERR-ANALYS

Units : MB - millibarns

- MB - millibarns
- MB\*EV - millibarns \* eV
- MB\*EV-SQ - millibarns \* eV-squared
- MB\*MEV - millibarns \* MeV
- MB\*MEV/SR - millibarns\*MeV per steradian
- MB\*MILLIEV - millibarns \* milli-eV
- MB\*RT-EV - millibarns \* square-root(eV)
- MB/EV - millibarns per eV

Current Subentry  
**33080003**

**DATA**

Import Sort

Paste Chart

Clear Check

**Column**

Add Insert

Delete

Search name

Move Right

Relations

Value

Precision

Add Insert

Copy Delete

Move Up Move Down

**Undo**

Undo Last Action

**Table**

Precision for Table

Clear Data Table

Export Data Table

Add Data Table

Cancel

EXFOR-Help

Help

ENDBIB		15	0
NOCOMMON		0	0
DATA		3	5
EN	DATA	DATA-ERR	
MEV	MB	MB	
	13.73	15.6	1.5
	14.07	17.	1.6
	14.42	18.6	1.6
	14.68	20.4	1.7
	14.77	22.	1.7
ENDDATA		7	0
ENDSUBENT		27	0
SUBENT	33080003	20190923	
BIB		9	16
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		
SAMPLE	(34-SE-80,NAT=0.4961)		
	Natural SeO2 (purity of 99.99%) powder		
	(9-F-19,NAT=1.)		
	CaF2 (purity of 99.99%) powder		
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)		
MONITOR	(9-F-19(N,P)8-O-19,,SIG)		
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,		
	DG,1357.,0.504)		
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)		
METHOD	Pneumatic sample transfer system used.		
	(ACTIV) Irradiated for 60 sec., then measured for 60		
	sec.		
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)		
ERR-ANALYS	(MONIT-ERR,,5.28) cross section 19F(n,p)190 (<5.28%)		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014 )064609		
ENDBIB			
NOCOMMON			
DATA			
ENDDATA			
ENDSUBENT			
ENDENTRY			
ENDENTRY			

**Data Table**

EN	DATA	DATA-ERR
MEV	MB	MB
1		

**Current Subentry**  
33080003

**DATA**

Import Sort  
Paste Chart  
Clear Check

**Column**

Add Insert  
Copy Delete  
Rename  
Move Left Move Right  
Calculations  
Set Value  
Set Precision

**Row**

Add Insert  
Copy Delete  
Move Up Move Down

**Undo**

Undo Last Action

**Table**

Precision for Table  
Clear Data Table  
Export Data Table  
Add Data Table  
Cancel

EXFOR-Help  
Help





Renumber Subentries before Ordering  Use 67-80 Colu

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry N 33080

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION  
 DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS  
 SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTORY

Column: 1 Row: 88 Total: 92 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080003 DATA section 33080.exf

	14.42	18.6	1.6				
	14.68	20.4	1.7				
	14.77	22.	1.7				
ENDDATA		7	0				
ENDSUBENT		27	0				
SUBENT		33080003	20190923				
BIB		9	16				
REACTION	(34-SE-80 (N, P) 33-AS-80, , SIG)						
SAMPLE	(34-SE-80, NAT=0.4961)						
	Natural SeO2 (purity of 99.99%) powder						
	(9-F-19, NAT=1.)						
	CaF2 (purity of 99.99%) powder						
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)						
MONITOR	(9-F-19 (N, P) 8-O-19, , SIG)						
DECAY-MON	(8-O-19, 26.91SEC, DG, 197., 0.96, DG, 1357., 0.504)						
MONIT-REF	(22824001, I.A.Reyhancan, J, ANE, 30, 1001, 2003)						
METHOD	Pneumatic sample transfer system used.						
	(ACTIV) Irradiated for 60 sec., then measured for 60 sec.						
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)						
ERR-ANALYS	(MONIT-ERR, , 5.28) cross section 19F(n,p)19O (<5.28%)						
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014 ) 064609						
ENDBIB							
NOCOMMON							
DATA		3	5				
EN	DATA		DATA-ERR				
MEV	MB		MB				
	13.73	4.8	0.63				
	14.07	7.1	0.95				
	14.42	8.6	1.1				
	14.68	9.6	1.4				
	14.77	11.	1.6				
ENDDATA							
ENDDATA							
ENDSUBENT							
ENDENTRY							
ENDENTRY							

ENTRY	33080	20190923									
SUBENT	33080001	20190923									
BIB											
TITLE	Cross sections of the (n, p) reaction on the <sup>78</sup> Se and <sup>80</sup> Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies										
AUTHOR	(F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)										
INSTITUTE	(3INDIND) Fergusson College, Pune										
	(3INDPOO)										
REFERENCE	(J,PR/C,90,064609,2014)										
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator										
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target										
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples.										
	The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.										
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%)										
	(ERR-2,,14.) Self absorption of gamma-rays (<14%)										
	(ERR-3,,1.) Neutron energy distribution (<1%)										
	(ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)										
HISTORY	(20190923C) VT										
ENDBIB											
COMMON	1	3									
ERR-1											
PER-CENT	1.5										
ENDCOMMON											
ENDSUBENT											
SUBENT	33080002	20190923									
BIB											
REACTION	(34-SE-78(N,P)33-AS-78,,SIG)										
SAMPLE	(34-SE-78,NAT=0.2377)										
	Natural SeO2 (purity of 99.99%) powder										
	(26-FE-56,NAT=0.9175)										
	Natural Fe (purity of 99.99%) powder										
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)										
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)										

Click on Order

ERR-1			
PER-CENT			
1.5			
ENDCOMMON			
ENDSUBENT			
SUBENT	33080002	20190923	
BIB			
REACTION	(34-SE-78(N,P)33-AS-78,,SIG)		
SAMPLE	(34-SE-78,NAT=0.2377)		
	Natural SeO2 (purity of 99.99%) powder		
	(26-FE-56,NAT=0.9175)		
	Natural Fe (purity of 99.99%) powder		
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)		
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)		
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)		
MONIT-REF	(41240001,A.A.Filatenkov+,R,RI-252,1999)		
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for 900 sec.		
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g)		
	packed in a polyethylene bag (10 mm x 10 mm)		
ERR-ANALYS	(MONIT-ERR,2.,3.7) cross section 56Fe(n,p)56Mn (2-3		
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609		
ENDBIB			
NOCOMMON			
DATA	3	5	
EN	DATA	DATA-ERR	
MEV	MB	MB	
13.73	15.6	1.5	
14.07	17.	1.6	
14.42	18.6	1.6	
14.68	20.4	1.7	
14.77	22.	1.7	
ENDDATA			
ENDSUBENT			
SUBENT	33080003	20190923	
BIB			
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)		



ORDER Results for C:\exfdata-201610\EXFOREditor30\33080.exf

ENTRY	33080	20190923	33080	0	1
SUBENT	33080001	20190923	33080	1	1
BIB	9	19	33080	1	2
TITLE	Cross sections of the (n, p) reaction on the 78Se and 80Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies		33080	1	3
	(F.M.D. Attar, S.D.Dhole, V.N.Bhcraskar)		33080	1	4
AUTHOR	(3INDIND) Fergusson College, Pune		33080	1	5
INSTITUTE	(3INDPOO)		33080	1	6
REFERENCE	(J.PR/C.90.064609,2014)		33080	1	7
FACILITY	(CCW,3INDPOO) 14 MeV neutron generator		33080	1	8
INC-SOURCE	(D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target		33080	1	9
DETECTOR	(HPGE) To measure gamma-ray activities of the irradiated samples.		33080	1	10
	The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.		33080	1	11
ERR-ANALYS	(ERR-1) Detector efficiency (~1.5%)		33080	1	12
	(ERR-2, .14.) Self absorption of gamma-rays (<14%)		33080	1	13
	(ERR-3, .1.) Neutron energy distribution (<1%)		33080	1	14
	(ERR-4, .2.2) Absolute gamma-ray intensity (<2.2%)		33080	1	15
HISTORY	(20190923C) VT		33080	1	16
ENDBIB	19	0	33080	1	17
COMMON	1	3	33080	1	18
ERR-1			33080	1	19
PER-CENT	1.5		33080	1	20
ENDCOMMON	3	0	33080	1	21
ENDSUBENT	26	0	33080	1	22
SUBENT	33080002	20190923	33080	199999	23
BIB	9	15	33080	2	24
REACTION	(34-SE-78(N,P)33-AS-78,,SIG)		33080	2	25
SAMPLE	(34-SE-78,NAT=0.2377)		33080	2	26

Save Close Help

File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering
  Use 67-80 Columns

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

Entry Number: 33080 Set

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS REACTION CURR

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-RE COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Generation Flag C Alteration Flag I Code A to HISTORY

Column: 1 Row: 90 Total: 90 Insert C:\exfdata-201610\EXFOREditor30\33080.exf

33080.exf

14.42	18.6	1.6				33080	25
14.68	20.4	1.7				33080	2
14.77	22.	1.7				33080	2
ENDDATA	7	0				33080	2
ENDSUBENT	27	0				33080	2999999
SUBENT	33080003	20190923				33080	3
BIB	9	16				33080	3
REACTION	(34-SE-80 (N, P) 33-AS-80,, SIG)					33080	3
SAMPLE	(34-SE-80, NAT=0.4961)					33080	3
	Natural SeO2 (purity of 99.99%) powder					33080	3
	(9-F-19, NAT=1.)					33080	3
	CaF2 (purity of 99.99%) powder					33080	3
DECAY-DATA	(33-AS-80, 15.2SEC, DG, 666., 0.42)					33080	3
MONITOR	(9-F-19 (N, P) 8-O-19,, SIG)					33080	3
DECAY-MON	(8-O-19, 26.91SEC, DG, 197., 0.96					33080	3
	DG, 1357., 0.504)					33080	3
MONIT-REF	(22824001, I. A. Reyhancan, J, ANE, 30, 1001, 2003)					33080	3
METHOD	Pneumatic sample transfer system used.					33080	3
	(ACTIV) Irradiated for 60 sec., then measured for 60					33080	3
	sec.					33080	3
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)					33080	3
ERR-ANALYS	(MONIT-ERR,, 5.28) cross section 19F(n,p)19O (<5.28%)					33080	3
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609					33080	3
ENDBIB	16	0				33080	3
NOCOMMON	0	0				33080	3
DATA	3	5				33080	3
EN	DATA	DATA-ERR				33080	3
MEV	MB	MB				33080	3
13.73	4.8	0.63				33080	3
14.07	7.1	0.95				33080	3
14.42	8.6	1.1				33080	3
14.68	9.6	1.4				33080	3
14.77	11.	1.6				33080	3
ENDDATA	7	0				33080	3
ENDSUBENT	28	0				33080	3999999
ENDENTRY	3	0				33080	9999999999

After ordering the file click on "Check"

Column: 67	Row: 68	Total: 90	Insert	C:\exfdata-201610\EXFOREditor30\33080.exf	SUBENTRY 33080003	BIB section
33080.exf						
14.42	18.6	1.6			33080	2 25
14.68	20.4	1.7			33080	2 26
14.77	22.	1.7			33080	2 27
ENDDATA	7	0			33080	2 28
ENDSUBENT	27	0			33080	299999
SUBENT	33080003	20190923			33080	3 1
BIB	9	16			33080	3 2
REACTION	(34-SE-80 (N,P) 33-AS-80,,SIG)				33080	3 3
SAMPLE	(34-SE-80,NAT=0.4961)				33080	3 4
	Natural SeO2 (purity of 99.99%) powder				33080	3 5
	(9-F-19,NAT=1.)				33080	3 6
	CaF2 (purity of 99.99%) powder				33080	3 7
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)				33080	3 8
MONITOR	(9-F-19 (N,P) 8-O-19,,SIG)				33080	3 9
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,				33080	3 10
	DG,1357.,0.504)				33080	3 11
MONIT-REF	(22824001,I.A.Reyhancan,J,ANE,30,1001,2003)				33080	3 12
METHOD	Pneumatic sample transfer system used.				33080	3 13
	(ACTIV) Irradiated for 60 sec., then measured for 60				33080	3 14
	sec.				33080	3 15
	(MOMIX) SeO2 and CaF2 powder (total weight of ~1 g)				33080	3 16
ERR-ANALYS	(MONIT-ERR,,5.28) cross section 19F(n,p)190 (<5.28%)				33080	3 17
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609				33080	3
ENDBIB	16	0			33080	3
NOCOMMON	0	0			33080	3
DATA	3	5			33080	
EN	DATA	DATA-ERR			330	

Error free  
entry

Errors for C:\exfdata-201610\EXFOREditor30\33080.exf

```
ZCHEX (Version 2015-05-13) run on 26-Sep-2019
Input file: C:\exfdata-201610\EXFOREditor30\33080.exf
ENTRY 33080
  First pass completed with no fatal errors
1
- Second pass checking -
ENTRY 33080
Tape statistics
# of records----->      89
# of entries----->       1
```



SAMPLE	(34-SE-78,NAT=0.2377)				33080	2	4
	Natural SeO2 (purity of 99.99%) powder				33080	2	5
	(26-FE-56,NAT=0.9175)				33080	2	6
	Natural Fe (purity of 99.99%) powder				33080	2	7
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)				33080	2	8
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)				33080	2	9
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)				33080	2	10
MONIT-REF	(41240001,A.A.Filatenkov+,R,RI-252,1999)				33080	2	11
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for				33080	2	12
	900 sec.				33080	2	13
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g)				33080	2	14
	packed in a polyethylene bag (10 mm x 10 mm)				33080	2	15
ERR-ANALYS	(MONIT-ERR,2.,3.7) cross section 56Fe(n,p)56Mn (2-3.7%)				33080	2	16
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609				33080	2	17
ENDBIB	15	0			33080	2	18
NOCOMMON	0	0			33080	2	19
DATA	3	5			33080	2	20
EN	DATA	DATA-ERR			33080	2	21
MEV	MB	MB			33080	2	22
	13.73	15.6	1.5		33080	2	23
	14.07	17.	1.6		33080	2	24
	14.42	18.6	1.6		33080	2	25
	14.68	20.4	1.7		33080	2	26
	14.77	22.	1.7		33080	2	27
ENDDATA	7	0			33080	2	28
ENDSUBENT	27	0			33080	2999999	
SUBENT	33080003	20190923			33080	3	1
BIB	9	16			33080	3	2
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)				33080	3	3
SAMPLE	(34-SE-80,NAT=0.4961)				33080	3	4
	Natural SeO2 (purity of 99.99%) powder				33080	3	5
	(9-F-19,NAT=1.)				33080	3	6
	CaF2 (purity of 99.99%) powder				33080	3	7
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)				33080	3	8
MONITOR	(9-F-19(N,P)8-O-19,,SIG)				33080	3	9
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,				33080	3	10
	DG,1357.,0.504)				33080	3	11



File Sections Keywords Edit Processing Tools Help

Renumber Subentries before Ordering Use

EXFOR file Wizard Dummy Sort Chart Order Check Checker Spell Check Num.Check X4+ Viewer

TITLE AUTHOR INSTITUTE REFERENCE FACILITY INC-SOURCE DETECTOR SAMPLE METHOD ANALYSIS ERR-ANALYS

DECAY-DATA HALF-LIFE PART-DET ADD-RES MONITOR MONIT-REF REL-REF COMMENT CRITIQUE FLAG STATUS

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA Alteration Flag C Alteration Flag I Code A to HISTO

Column: 81 Row: 45 Total: 90 Insert C:\exfdata-201610\EXFOREditor30\33080.exf SUBENTRY 33080002 BIB section 33080.exf

SAMPLE	(34-SE-78,NAT=0.2377)					33080	2
	Natural SeO2 (purity of 99.99%) powder					33080	2
	(26-FE-56,NAT=0.9175)					33080	2
	Natural Fe (purity of 99.99%) powder					33080	2
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)					33080	2
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)					33080	2
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)					33080	2
MONIT-REF	(41240001,A.A.Filatenkov+,R,RI-252,1999)					33080	2
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for					33080	2
	900 sec.					33080	2
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g)					33080	2
	packed in a polyethylene bag (10 mm x 10 mm)					33080	2
ERR-ANALYS	(MONIT-ERR,2.,3.7) cross section 56Fe(n,p)56Mn (2-3.7%)					33080	2
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609					33080	2
ENDBIB	15	0				33080	2
NOCOMMON	0	0				33080	2
DATA	3	5				33080	2
EN	DATA	DATA-ERR				33080	2
MEV	MB	MB				33080	2
	13.73	15.6	1.5			33080	2
	14.07	17.	1.6			33080	2
	14.42	18.6	1.6			33080	2
	14.68	20.4	1.7			33080	2
	14.77	22.	1.7			33080	2
ENDDATA	7	0				33080	2
ENDSUBENT	27	0				33080	2999999
SUBENT	33080003	20190923				33080	3
BIB	9	16				33080	3
REACTION	(34-SE-80(N,P)33-AS-80,,SIG)					33080	3
SAMPLE	(34-SE-80,NAT=0.4961)					33080	3
	Natural SeO2 (purity of 99.99%) powder					33080	3
	(9-F-19,NAT=1.)					33080	3
	CaF2 (purity of 99.99%) powder					33080	3
DECAY-DATA	(33-AS-80,15.2SEC,DG,666.,0.42)					33080	3
MONITOR	(9-F-19(N,P)8-O-19,,SIG)					33080	3
DECAY-MON	(8-O-19,26.91SEC,DG,197.,0.96,					33080	3
	DG,1357.,0.504)					33080	3

Click on Checker button

	Natural SeO2 (purity of 99.99%) powder			33080	2	5
	(26-FE-56,NAT=0.9175)			33080	2	6
	Natural Fe (purity of 99.99%) powder			33080	2	7
DECAY-DATA	(33-AS-78,90.7MIN,DG,614.,0.54)			33080	2	8
MONITOR	(26-FE-56(N,P)25-MN-56,,SIG)			33080	2	9
DECAY-MON	(25-MN-56,2.578HR,DG,847.,0.99)			33080	2	10
MONIT-REF	(41240001,A.A.Filatenkov+,R,RI-252,1999)			33080	2	11
METHOD	(ACTIV) Irradiated for 5400 sec., then measured for			33080	2	12
	900 sec.			33080	2	13
	(MOMIX) SeO2 and Fe powder (total weight of ~1 g)			33080	2	14
	packed in a polyethylene bag (10 mm x 10 mm)			33080	2	15
ERR-ANALYS	(MONIT-ERR,2.,3.7) cross section 56Fe(n,p)56Mn (2-3.7%)			33080	2	16
STATUS	(TABLE) Table II of Phys. Rev. C 90 (2014) 064609			33080	2	17
ENDBIB	15	0		33080	2	18
NOCOMMON	0	0		33080	2	19
DATA	3	5		33080	2	20
EN	DATA	DATA-ERR		33080	2	21
MEV	MB	MB		33080	2	22
	13.73	15.6	1.5	33080	2	23
	14.07	17.	1.6	33080	2	24
	14.42	18.6	1.6	33080	2	25
	14.68	20.4	1.7	33080	2	26
	14.77	22.	1.7	33080	2	27
ENDDATA	7	0		33080	2	28
ENDSUBENT	27	0		33080	299999	
SUBENT	33080003	20190923		33080	3	1
BIB	9	16		33080	3	2

## Hokkaido University Nuclear Reaction Data Centre (JCPRG) EXFOR Compilation Tool

CHEX, ORDER and XTRACT have been developed by Victoria McLane (NNDC) and maintained by Viktor Zerkin (IAEA-NDS). XDOMINO has been developed by Shuji Yamaguchi (JCPRG). JANIS Trans Checker is maintained by Nicolas Soppera (NEA DB). EXFOR Converter System is maintained by Viktor Zerkin

Processing of an EXFOR entry or trans tape with ZCHEX, ZORDER, JANIS etc.

Choose File No file chosen

Extraction of bibliography from a doi (e.g., 10.1016/j.nds.2014.07.065) or EXFOR code (e.g., J,NDS,120,272,2014)

10.1016/j.nds.2014.07.065

Checking tool for ENTRY

Choose the File and click on  
submit



## Hokkaido University Nuclear Reaction Data Centre (JCPRG)

### EXFOR Compilation Tool

CHEX, ORDER and XTRACT have been developed by Victoria McLane (NNDC) and maintained by Viktor Zerkov (IAEA-NDS). XDOMINO has been developed by Shuji Yamaguchi (JCPRG). JANIS Trans Checker is maintained by Nicolas Soppera (NEA DB). EXFOR Converter System is maintained by V

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

Click on Order  
output

- input
- order output
- chex output
- janis output
- X4+ output
- xtract output
- flag output  
(for altered entry only)
- lowercase output  
(for processing of UPPER CASE entry only)

Feel free to inquire anything (web service, contribution to databases etc.):

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ZCHEX (Ver-2018-04-20) run on 26-Sep-2019

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Input file: ../../exfor/tool/./work/trans-115a.txt

File labeled: TRANS 20190926

ENTRY 33080

First pass completed with no fatal errors

1

- Second pass checking -

ENTRY 33080

Tape statistics

# of records----->	91
# of entries----->	1
# of subentries----->	3
# of new data subentries->	0
# of new entries----->	0

ENTRY 33080001 20190923  
 SUBENT 33080001 20190923  
 BIB 9 19  
 TITLE Cross sections of the (n, p) reaction on the <sup>78</sup>Se and <sup>80</sup>Se isotopes measured for 13.73 MeV to 14.77 MeV and estimated for 10 MeV to 20 MeV neutron energies (F.M.D.Attar, S.D.Dhole, V.N.Bhoraskar)  
 AUTHOR (3INDIND) Fergusson College, Pune  
 INSTITUTE (3INDPOO)  
 # (3INDIND) India, India  
 # (3INDPOO) University of Pune, India  
 REFERENCE (J, PR/C, 90, 064609, 2014)  
 # (J, PR/C, 90, 064609, 2014) Jour: Physical Review, Part C, Nuclear Physics, Vol.90, p.064609 (2014), USA  
 FACILITY (CCW, 3INDPOO) 14 MeV neutron generator  
 # (CCW Cockcroft-Walton accelerator  
 #, 3INDPOO) University of Pune, India  
 INC-SOURCE (D-T) Deuterium ion beam (175 keV, ~4 mm in diam., ~100 uA on target) on an 8 Curie tritium target  
 # (D-T) <sup>3</sup>H(d,n)  
 DETECTOR (HPGE) To measure gamma-ray activities of the irradiated samples.  
 The detection efficiency was measured with a Canberra make Multi Standard MGS-3 gamma-ray source.  
 # (HPGE) Hyperpure Germanium detector  
 ERR-ANALYS (ERR-1) Detector efficiency (~1.5%)  
 (ERR-2,,14.) Self absorption of gamma-rays (<14%)  
 (ERR-3,,1.) Neutron energy distribution (<1%)  
 (ERR-4,,2.2) Absolute gamma-ray intensity (<2.2%)  
 HISTORY (20190923C) VT  
 ENDBIB 19 0  
 COMMON 1 1 12  
 #Legend: 1 x 1 x 12 : data columns \* lines \* column width

#ERR-1	1st partial uncertainty, defined under ERR-ANALYS	PER-CENT	per-cent
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#/Legend

ERR-1  
 PER-CENT  
 1.5  
 ENDCOMMON  
 ENDSUBENT 26 0

SUBENT 33080002 20190923  
 BIB 9 15  
 REACTION (34-SE-78(N,P)33-AS-78,,SIG)  
 # (34-SE-78(N,P)33-AS-78,,SIG)  
 # Target:SE-78 #Projectile:N #Reaction:N,P #Quantity:,SIG:CS:Cross section  
 # Product: [33-AS-78]  
 SAMPLE (34-SE-78,NAT=0.2377)  
 Natural SeO<sub>2</sub> (purity of 99.99%) powder  
 (26-FE-56,NAT=0.9175)  
 Natural Fe (purity of 99.99%) powder  
 (33-AS-78,90.7MIN,DG,614.,0.54)  
 # Decay-data: [33-AS-78]  
 MONITOR (26-FE-56(N,P)25-MN-56,,SIG)  
 (25-MN-56,2.578HR,DG,847.,0.99)  
 DECA-MON (41240001,A.A.Filatenkov+,R,RI-252,1999)  
 MONIT-REF (ACTIV) Irradiated for 5400 sec., then measured for 900 sec.  
 (MOMIX) SeO<sub>2</sub> and Fe powder (total weight of ~1 g) packed in a polyethylene bag (10 mm x 10 mm)  
 # (ACTIV) Activation  
 # (MOMIX) Mixed monitor  
 ERR-ANALYS (MONIT-ERR,2.,3.7) cross section <sup>56</sup>Fe(n,p)<sup>56</sup>Mn (2-3.7%)  
 STATUS (TABLE) Table II of Phys. Rev. C 90 (2014) 064609  
 # (TABLE) Data presented by authors  
 ENDBIB 15 0  
 NOCOMMON  
 DATA 3 5 12  
 #Legend: 3 x 5 x 12 : data columns \* lines \* column width

#EN	Energy of incident projectile, laboratory system	MEV	MeV
#DATA	Cross section #+ 34-SE-78(N,P)33-AS-78,,SIG	MB	millibarns
#DATA-ERR	Error in value of quantity, defined under ERR-ANALYS	MB	millibarns