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ENDF/B-6 Decay Data Library

by the U.S. National Nuclear Data Center

Summary of contents

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Abstract: This document summarizes the contents of the nuclear decay data library of ENDF/B-6, the U.S. Evaluated Nuclear Data Library. The data are in ENDF-6 format. A copy of the library is available upon request from the IAEA Nuclear Data Section, costfree, on floppy diskette, or CD-ROM. The library is available online within NDIS, the Nuclear Data Information System and also from the WWW pages of the Nuclear Data Section.

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username: IAEANDS for interactive Nuclear Data Information System
usernames: ANONYMOUS for FTP file transfer;
FENDL2 for FTP file transfer of FENDL-2.0;
RIPL for FTP file transfer of RIPL;
NDSOVL for FTP access to files sent to NDIS "open" area.

Web: <http://www-nds.iaea.or.at>

Note:

The IAEA-NDS-reports should not be considered as formal publications. When a nuclear data library is sent out by the IAEA Nuclear Data Section, it will be accompanied by an IAEA-NDS-report which should give the data user all necessary documentation on contents, format and origin of the data library.

IAEA-NDS-reports are updated whenever there is additional information of relevance to the users of the data library.

For citations care should be taken that credit is given to the author of the data library and/or to the data center which issued the data library. The editor of the IAEA-NDS-report is usually not the author of the data library.

Neither the originator of the data libraries nor the IAEA assume any liability for their correctness or for any damages resulting from their use.

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Citation guidelines:

a) *citing the evaluation of one material*

Author(s), "Proton reaction data evaluation of ...", report ... (place, year) [or, if no report is available: Undocumented]. Data file ENDF/B-VI MAT 1234 Rev. 2 (date) by the U.S. National Nuclear Data Center on behalf of the Cross-Section Evaluation Working Group. Data received on diskette or CD-ROM (or retrieved online) from the IAEA Nuclear Data Section.

b) *citing the entire library*

H.D. Lemmel (ed.), "ENDF/B-6 decay data library", informal report IAEA-NDS-108, Rev. August 1992.

c) *citing the format*

V. McLane, P.F. Rose, C.L. Dunford (ed.), "Data formats and procedures for the Evaluated Nuclear Data File ENDF-6", report BNL-NCS-44945 (ENDF-102) Rev 2/97 (Brookhaven National Laboratory 1997).

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For the ENDF/B-6 library and its sublibraries see the document IAEA-NDS-100.

This decay data library contains all pertinent decay data for all nuclei that occur in the nuclear reactions included in the main ENDF/B-6 library for incident neutrons. Included are

- fission-product nuclei,
- radionuclides resulting from neutron activation, and
- actinides.

It also includes neutron yield data from spontaneous fission, specifically the recommended data for the Cf-252 fission-neutron spectrum which is an international reference standard.

The library was released by the NNDC on 4 Sept. 1991 on tapes 200 to 208. It contains evaluated decay data for 979 nuclides. The size is 351.063 records.