**Nuclear Data Section**

**International Atomic Energy Agency**

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**Memo CP-D/1040**

**Date:** 31 January 2022

**To:** Distribution

**From:** N. Otsuka

**Subject: Al-26 production activation cross section**

26Al has the long-lived (7.17×105 yr) ground state and short lived (6.3 sec) metastable state. The metastable state does not have an isomeric transition branch, and therefore we expect production cross sections measured by an off-line technique (typically accelerator mass spectrometry) are partial for ground state production.

I extracted all datasets coded with REACTION SF4=13-AL-26 and METHOD=ACTIV or AMS from EXFOR Master Ver. 2022-01-26, and registered the following suggestions of corrections in EXFOR Feedback List. D6020 is most probably from on-line gamma spectroscopy and L0039 is from on-line neutron detection (i.e., use of ACTIV is questionable).

|  |  |  |  |
| --- | --- | --- | --- |
| **Data #** | **SF4** | **Additional correction** | |
| **Keyword** | **Suggestion** |
| 14351.004 | Add -G | METHOD | Add AMS. |
| 14351.007 | Add -G | METHOD | Add AMS. |
| 41298.102 | Add -G | METHOD | Add AMS. |
| C0196.009 | Add -G |  |  |
| C0196.010 | Add -G |  |  |
| C0196.011 | Add -G |  |  |
| C0196.019 | Add -G |  |  |
| C0196.020 | Add -G |  |  |
| C0196.021 | Add -G |  |  |
| C0199.003 | Add -G |  |  |
| C0235.019 | Add -G | DECAY-DATA | Add 8E+05yr and B+. |
| C0507.011 | Add -G |  |  |
| C0507.012 | Add -G |  |  |
| C0507.013 | Add -G |  |  |
| C1235.002 | Add -G | REACTION | SF5-SF8: Use ,PY,,TT without E-EXC=0.  ARB-UNITS -> PRD/INC. |
| C1235.003 |  | REACTION | SF5-SF8: Use ,PY,,TT without E-EXC=0.  ARB-UNITS -> PRD/INC. |
| C2149.002 | (Ok) | METHOD | Delete ACTIV. |
| C2192.005 | Add -G |  |  |
| C2192.006 | Add -G |  |  |
| D6020.002 | (Ok) |  |  |
| D6020.003 | (Ok) |  |  |
| D6020.004 | (Ok) |  |  |
| E1647.003 | Add -G |  |  |
| E1647.005 | Add -G |  |  |
| E1647.007 | Add -G |  |  |
| E1647.009 | Add -G |  |  |
| E1647.012 | Add -G |  |  |
| E1647.014 | Add -G |  |  |
| E1647.016 | Add -G |  |  |
| E1951.002 | Add -G |  |  |
| E2414.002 |  | Data | Add ISOMER=0 for 13-AL-26. |
| E2414.003 |  | Data | Add ISOMER=0 for 13-AL-26. |
| L0039.015 | (Ok) |  |  |
| L0150.004 | Add -G | DECAY-DATA | Add 6.4 sec. |
| L0150.005 | Add -G | DECAY-DATA | Add 6.4 sec. |
| O0078.005.6 | Add -G |  |  |
| O0078.016.3 | Add -G |  |  |
| O0078.023.4 | Add -G |  |  |
| O1907.003 | Add -G |  |  |
| O1999.002 | Add -G | DECAY-DATA | Add 7.16E+05 yr and DG. |
| O1999.003 | Add -G | DECAY-DATA | Add 7.16E+05 yr and DG. |
| O2000.002 | Add -G | DECAY-DATA | Add 0.716E+06 yr and DG. |
| O2070.002 | Add -G |  |  |
| O2070.003 | Add -G |  |  |

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