

## 25-Mn-55 (n, 2n) 25-Mn-54

Abundance (%) = 100  
 Q = -10.22652 MeV                      E<sub>th</sub> = 10.41428 MeV  
 T<sub>1/2</sub> = 312.3 d 4  
 E<sub>γ</sub> = 834.848 ± 0.003 keV              I<sub>γ</sub> = 99.976 ± 0.001              EC+β<sup>+</sup>

IRDF-90                      - eval. - Mar 1988 K. Shibata.  
 D-99 (JENDL/D-99)       - eval. - Aug 1996 S. Iwasaki.  
 ENDF/B-VI                - eval. - Mar 1988 K. Shibata.  
 JENDL-3.2                - eval. - Mar 1987 K. Shibata, T. Hojuyama.  
 JEF-2                      - eval. - Jun 1982 Scientific Co-ordination Group.  
 CENDL-2                 - eval. - Aug 1991 B. Yu, S. Chiba, K. Shibata et al.

**Tabl. 1**

<b>U-235</b>						
	<b>IRDF-90</b>	<b>D-99</b>	<b>ENDF/B-VI</b>	<b>JENDL-3</b>	<b>JEF-2</b>	<b>CENDL-2</b>
10%	11.20	11.20	11.20	11.20	11.20	11.20
50%	12.60	12.50	12.60	12.60	12.50	12.50
90%	14.80	14.80	14.80	14.80	14.70	14.70
<b>ACS</b>	<b>2.11E-04</b>	<b>2.22E-04</b>	<b>2.11E-04</b>	<b>2.11E-04</b>	<b>2.45E-04</b>	<b>2.39E-04</b>

**Tabl. 2**

<b>Cf-252</b>						
	<b>IRDF-90</b>	<b>D-99</b>	<b>ENDF/B-VI</b>	<b>JENDL-3</b>	<b>JEF-2</b>	<b>CENDL-2</b>
10%	11.30	11.30	11.30	11.30	11.30	11.30
50%	12.70	12.70	12.70	12.70	12.67	12.60
90%	15.10	15.10	15.10	15.10	15.00	15.10
<b>ACS</b>	<b>4.57E-04</b>	<b>4.80E-04</b>	<b>4.57E-04</b>	<b>4.57E-04</b>	<b>5.28E-04</b>	<b>5.16E-04</b>

**Tabl. 3**

1.5+07	1.5+07	1	1USASTF	R,AFWL-TR-68-134	6903 R.C.BARRALL,	10022008
1.5+07	1.5+07	1	1USALRL 1USASTF	J,NP/A,138,387	6912 R.C.BARRALL,	10031004
1.3+07	1.9+07	10	1USALOK 1USASTF	J,PR,163,1308	67 H.O.MENLOVE,	11421005
1.4+07	1.4+07	1	1USALRL	C,58GENEVA,15,3(2494)	5809 V.J.ASHBY,	11632003
1.5+07	1.5+07	1	1USAARK	P,A-ARK-61,6	6101 J.NIX,	11684003
1.5+07	1.5+07	1	1USAANL	J,ANE,14,489	8709 J.W.MEADOWS,	12969011
1.4+07	1.5+07	5	1USAANL	S,ASTM-STP-956,743	87 L.R.GREENWOOD	12977008
1.4+07	1.4+07	1	2AUSIRK	J,OSA,99,1	6201 R.WENUSCH,	20091003
1.3+07	2.0+07	23	2ZZZGEL	J,JNE/AB,19,907	6511 A.PAULSEN,	20378004
1.5+07	1.5+07	1	2AUSIRK	J,OSA,113,153	7606 O.SCHWERER,	20811006
1.3+07	1.8+07	8	2GERHAM	J,NP/A,130,195	6906 M.BORMANN,	20835003
1.5+07	1.5+07	1	2JPNKYU	P,NEANDC(J)-61U,94	7909 K.KAYASHIMA,	21300013
1.4+07	1.4+07	1	2FR BRC	R,EANDC(E)-49L,83	6310 B.GRANGER,	21514005
1.4+07	1.4+07	1	2GERMUN	W,VONACH	68 H.VONACH	21533002
1.5+07	1.5+07	1	2GERKIG	R,GKSS-84-E-	84 B.M.BAHAL,	21936010
1.3+07	1.5+07	8	2JPNJAE	R,JAERI-1312	88 Y.IKEDA,	22089039
1.4+07	1.4+07	1	2JPNKTO	C,88MITO,261	88 K.KOBAYASHI,	22093009
1.4+07	1.4+07	1	2JPNKTO	J,NSE,106,332	90 I.KIMURA,	22214014
1.1+07	1.3+07	3	2GERJUL	J,PR/C,49,266	94 M.BOSTAN,	22292006
1.8+07	3.8+07	5	2JPNTOH 2JPNTOK	S,JAERI-M-92-027,354	9203 T.S.SOEWARSONO,	22335006
1.5+07	1.5+07	1	3POLLOU	P,INR-1464,14	7305 J.ARMINOWICZ,	30264011
1.5+07	1.5+07	1	3HUNELU	J,AHP,38,(3),209	75 F.DEAK,	30333002

1.5+07	1.5+07	1	3CPRAEP	R,INDC(CPR)-16	8908 LU HAN-LIN,	30615002
1.2+07	1.8+07	14	3CPRAEP	R,INDC(CPR)-16	8908 LU HAN-LIN,	30615003
1.5+07	1.5+07	1	3MORMOH	W,BERRADA	8404 M.BERRADA	30805002
1.4+07	1.5+07	1	3AULCBR	J,AUJ,13,186	60 E.WEIGOLD	31039006
1.4+07	1.4+07	1	4CCPFEI	R,YK-7,102	7203 O.A.SALNIKOV,	40037133
1.5+07	1.5+07	1	4CCPCCP	R,YK-9,50	72 G.N.MASLOV,	40136005
1.4+07	1.5+07	7	4RUSRI	R,INDC(CCP)-402	9701 A.A.FILATENKOV,	41240010

$^{55}\text{Mn}(n,2n)^{54}\text{Mn}$ 