

## 53-I-127 (n, 2n) 53-I-126

Abundance (%)	=	100			
Q	=	-9.14351 MeV	E <sub>th</sub>	=	9.21618 MeV
T <sub>1/2</sub>	=	13.11 d 5			
E <sub>γ</sub>	=	388.633 ± 0.011 keV	I <sub>γ</sub>	=	34.09 ± 2.57
E <sub>γ</sub>	=	666.331 ± 0.012 keV	I <sub>γ</sub>	=	33.1 ± 2.5
E <sub>γ</sub>	=	753.819 ± 0.013 keV	I <sub>γ</sub>	=	4.16 ± 0.31
					β <sup>-</sup>
					EC+β <sup>+</sup>
					EC+β <sup>+</sup>

IRDF-90	- eval. - Jun 1991 Z. Wenrong, L. Hanlin et al.
D-99 (JENDL/D-99)	- eval. - Jan 1996 N. Odano.
ENDF/B-VI	- eval. - Mar 1991 P. Young, R. Mac-Farlane.
JENDL-3.2	- eval. - Mar 1990 JNDC FP Nuclear Data W.G.
JEF-2	- eval. - Jul 1983 H. Gruppelaar, E. Menapace.

**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>
10%	10.20	10.10	10.00	9.90	9.80
50%	11.50	11.40	11.30	11.20	11.00
90%	13.70	13.60	13.60	13.40	13.20
<b>ACS</b>	<b>1.08E-03</b>	<b>1.13E-03</b>	<b>1.07E-03</b>	<b>1.43E-03</b>	<b>1.82E-03</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>
10%	10.30	10.10	10.10	10.00	9.80
50%	11.70	11.60	11.40	11.40	11.20
90%	14.00	14.00	13.90	13.80	13.60
<b>ACS</b>	<b>2.14E-03</b>	<b>2.22E-03</b>	<b>2.09E-03</b>	<b>2.77E-03</b>	<b>3.47E-03</b>

**Tabl. 3**

1.5+07	1.5+07	1	1USASTF	R,AFWL-TR-68-134	6903 R.C.BARRALL,	10022019
1.5+07	1.5+07	1	1USALRL 1USASTF	J,NP/A,138,387	6912 R.C.BARRALL,	10031012
9.2+06	2.0+07	13	1CANCRC	C,79KNOX,,(DC-9)	7910 D.C.SANTRY	10424002
1.4+07	1.4+07	1	1USAGIT	J,PR/C,1,350	7001 W.D.LU,	10497034
1.4+07	1.5+07	1	1CANCRC	J,CJP,31,267	53 E.B.PAUL,	11274085
9.5+06	1.8+07	7	1USALAS	J,PR,89,1302	5303 H.C.MARTIN,	12028002
1.5+07	1.5+07	1	2AUSIRK	J,APA,34,209	7109 E.HAVLIK	20509002
1.3+07	1.8+07	5	2GERHAM	J,ZP,166,477	6202 M.BORMANN,	21339010
1.5+07	1.5+07	1	2GERKIG	C,85SANTA,1,211(JA46)	85 R.PEPELNIK,	21976040
1.5+07	1.5+07	1	3POLLOU	P,INR-1464,14	7305 J.ARMINOWICZ,	30264038
1.1+07	1.8+07	10	3CPRAEP	R,INDC(CPR)-16	8908 LU HAN-LIN,	30523007
1.5+07	1.5+07	1	3PAKLAH	J,JIN,30,2577	68 S.M.QAIM,	31080004
1.4+07	1.4+07	1	4CCPCCP	R,YK-9,50	72 G.N.MASLOV,	40136017

$^{127}\text{I}(n,2n)^{126}\text{I}$ 