

## 79-Au-197 (n, 2n) 79-Au-196

Abundance (%) = 100			
Q = -8.07112 MeV		E <sub>thr</sub> = 8.11245 MeV	
T <sub>1/2</sub> = 6.183 d 10			
E <sub>γ</sub> = 333.03 ± 0.05 keV		I <sub>γ</sub> = 22.85 ± 0.57	β <sup>-</sup>
E <sub>γ</sub> = 355.68 ± 0.03 keV		I <sub>γ</sub> = 86.9 ± 0.9	β <sup>-</sup>
T <sub>1/2</sub> = 9.7 h 1			
E <sub>γ</sub> = 147.81 ± 0.02		I <sub>γ</sub> = 42.50 ± 4.53	IT
E <sub>γ</sub> = 188.27 ± 0.03		I <sub>γ</sub> = 37.4 ± 3.9	IT
E <sub>γ</sub> = 168.37 ± 0.02		I <sub>γ</sub> = 7.65 ± 0.84	IT

IRDF-90	- eval. - Apr 1990 P. Young, A. Vonoch et al.
D-99 (JENDL/D-99)	- eval. - Mar 1990 N. Yamamuro, K. Kobayashi.
ENDF/B-VI	- eval. - Jan 1984 P. Young.
JEF-2	- eval. - Jun 1982 Scientific Co-operation Group.
BROND-2	- eval. - Jan 1984 P. Young.
CENDL-2	- eval. - Jan 1991 Y. Hanrong, W. Shunuan.

**Tabl.1**

U-235						
	IRDF-90	D-99	ENDF/B-VI	JEF-2	BROND-2	CENDL-2
10%	9.00	9.00	9.00	9.10	9.00	9.00
50%	10.40	10.30	10.40	10.40	10.40	10.30
90%	12.60	12.60	12.75	12.70	12.75	12.60
<b>ACS</b>	<b>3.172E-03</b>	<b>3.200E-03</b>	<b>2.902E-03</b>	<b>3.114E-03</b>	<b>2.902E-03</b>	<b>3.036E-03</b>

**Tabl.2**

Cf-252						
	IRDF-90	D-99	ENDF/B-VI	JEF-3	BROND-2	CENDL-2
10%	9.10	9.10	9.10	9.20	9.10	9.00
50%	10.50	10.50	10.60	10.50	10.60	10.50
90%	13.00	13.00	13.20	13.10	13.20	13.00
<b>ACS</b>	<b>5.727E-03</b>	<b>5.762E-03</b>	<b>5.260E-03</b>	<b>5.640E-03</b>	<b>5.260E-03</b>	<b>5.462E-03</b>

**Tabl.3**

1.4+07	1.4+07	1	1USAGIT 1USAVBT	J,NP/A,180,157	7201 A.K.HANKLA,	10244008
1.4+07	1.5+07	10	1USALRL	J,NP/A,190,635	72 D.R.NETHAWAY	10312009
1.5+07	2.4+07	10	1USALAS	J,PR/C,16,1792	7711 L.R.VEESER,	10445010
8.6+06	2.5+07	13	1USALAS	J,PR/C,12,451	7508 B.P.BAYHURST,	10536054
1.6+07	2.8+07	3	1USALAS	J,PR/C,12,451	7508 B.P.BAYHURST,	10536055
2.6+07	2.6+07	1	1USALAS	J,PR/C,12,451	7508 B.P.BAYHURST,	10536056
1.4+07	1.4+07	1	1USALRL	J,PR,111,616	58 V.J.ASHBY,	11097023
1.4+07	1.5+07	1	1CANCRC	J,CJP,31,267	53 E.B.PAUL,	11274095
1.2+07	2.0+07	10	1USALAS	J,PR,121,1438	6103 R.J.PRESTWOOD,	11645026
1.4+07	1.5+07	5	1USAANL	S,ASTM-STP-956,743	87 L.R.GREENWOOD	12977023
8.4+06	1.5+07	14	2FR BRC	W,FREHAUT	8006 J.FREHAUT,	20416019
1.0+07	2.0+07	28	2ZZZGEL	J,AKE,26,34	7508 A.PAULSEN,	20486005
1.2+07	1.4+07	2	2UK ALD	R,AWRE-O-72/72	7211 D.S.MATHER,	20795008
1.5+07	1.5+07	1	2GERMUN	J,NP/A,118,9	6809 W.DILG,	20802018
1.5+07	1.5+07	1	2SWDLND	R,LUNF-D6-3021	7811 P.ANDERSSON,	20842005
1.5+07	1.5+07	1	2UK NPL	J,JP/G,7,(1),115	8101 T.B.RYVES,	21847002
1.3+07	1.5+07	11	2JPNJAE	W,IKEDA	8411 Y.IKEDA,	21945005
1.4+07	1.4+07	1	2JPNKTO	C,88MITO,261	88 K.KOBAYASHI,	22093022

1.3+07 1.8+07	7	3CPRAEP	R,INDC(CPR)-16	8908 LU HAN-LIN,	30637007
1.3+07 1.5+07	6	3HUNKOS	C,82ANTWER.,414	8209 J.CSIKAI	30640010
1.5+07 1.5+07	1	3RUMPIT	J,RRP,29,421	84 I.GARLEA,	30813006
8.9+06 9.9+06	3	3HUNKOS	C,83KIEV,3,191	8310 S.DAROCZY,	30814004
1.4+07 1.5+07	3	3CPRSIU	W,WANG	8907 WANG XIUYUAN,	30935007
1.5+07 1.5+07	1	3CPRSIU	W,WANG	8907 WANG XIUYUAN,	30935009
1.5+07 1.5+07	1	3RUMBUC	J,RRP,37,(1),19	92 I.GARLEA,	31459021
1.4+07 1.4+07	1	4CCPCCP	R,YK-9,50	72 G.N.MASLOV,	40136020

# $^{197}\text{Au}(n,2n)^{196}\text{Au}$

