

23-V-51 (n, α) 21-Sc-48

Abundance (%)	=	99.750 \pm 0.002			
Q	=	-2.05828 MeV	E _{th}	r=	2.09904 MeV
T _{1/2}	=	43.67 h 9			
E _{γ}	=	983.526 \pm 0.012 keV	I _{γ}	=	100.1 \pm 0.6 β^-
E _{γ}	=	1037.522 \pm 0.012 keV	I _{γ}	=	97.6 \pm 0.7 β^-
E _{γ}	=	1312.120 \pm 0.012 keV	I _{γ}	=	100.1 \pm 0.7 β^-

IRDF-90	- eval. – Jun 1988 A. & D. Smith at al.
RRDF-98	- eval. – Nov 1997 R. Zolotarev et al.
ENDF/B-VI	- eval. – Jun 1988 A. & D. Smith at al.
JEF-2	- eval. – Jun 1982 Scientific Co-ordination Group.
CENDL-2	- eval. – Dec 1990 Z. Yiming, M. Gonggui.

Tabl. 1

U-235					
	IRDF-90	RRDF-98	ENDF/B-VI	JEF-2	CENDL-2
10%	7.70	7.80	7.70	3.50	7.70
50%	9.50	9.60	9.50	8.50	9.50
90%	12.50	12.60	12.50	12.40	12.50
ACS	2.29E-05	2.27E-05	2.29E-05	3.10E-05	2.35E-05

Tabl. 2

Cf-252					
	IRDF-90	RRDF-98	ENDF/B-VI	JEF-2	CENDL-2
10%	7.90	7.90	7.90	3.90	7.90
50%	9.80	9.90	9.80	9.20	9.80
90%	13.10	13.20	13.10	13.30	13.10
ACS	3.89E-05	3.88E-05	3.89E-05	4.75E-05	3.99E-05

Tabl. 3

1.5+07	1.5+07	1	1USAORL	R,ORNL-3672	6501 J.E.STRAIN,	11263038
1.4+07	1.5+07	1	1CANCRC	J,CJP,31,267	53 E.B.PAUL,	11274027
1.5+07	1.5+07	1	1USAARK	J,PR,131,2649	6309 E.T.BRAMLITT,	11590013
1.4+07	1.5+07	1	1USABNL	J,NP,37,78	62 M.HILLMAN	11610006
1.5+07	1.5+07	1	1USAARK	P,A-ARK-60,3	6001 A.POULARIKAS,	11683002
1.4+07	1.4+07	1	1USAAUB	J,ANE,9,369	82 W.H.WARREN,	12769003
5.5+06	9.6+06	20	1USAANL	J,ANE,11,623	8412 I.KANNO,	12904002
1.4+07	1.4+07	1	1USATEX	J,ANS,22,818	7511 R.SPANGLER,	12956011
1.5+07	1.5+07	1	1USAANL	J,ANE,14,489	8709 J.W.MEADOWS,	12969009
1.3+07	1.7+07	2	1USAКТY	J,BAP,5,42(C8)	6011 F.GABBARD,	13033002
1.4+07	1.4+07	1	2AUSIRK	J,OSA,95,199	5811 H.VONACH,	20086002
1.5+07	1.5+07	1	2JPNKTO	J,JPJ,13,325	5804 I.KUMABE	20283006
1.0+07	2.0+07	26	2ZZZGEL	J,AKE,22,291	7409 A.PAULSEN,	20485002
1.4+07	1.4+07	1	2GERMUN	J,ZP/A,272,279	7503 W.MANNHART,	20611006
1.5+07	1.5+07	1	2GERJUL	J,NP/A,283,269	7706 S.M.QAIM,	20721013
1.5+07	1.5+07	1	2UK NPL	J,JNE,27,531	7308 J.C.ROBERTSON,	20799013
1.5+07	1.5+07	1	2AUSIRK	J,OSA,113,153	7606 O.SCHWERER,	20811005
1.5+07	1.5+07	1	2GERMUN	C,68WASH,2,885	6803 H.K.VONACH,	20815011
1.3+07	2.0+07	9	2GERHAM	J,JPR,22,602	6110 M.BORMANN,	20904003
1.5+07	1.5+07	1	2UK BIA	J,JIN,31,3727	6912 D.CRUMPTON	20931007
1.5+07	1.5+07	1	2GERKIG	C,85SANTA,1,211(JA46)	85 R.PEPELNIK,	21976015
1.3+07	1.5+07	8	2JPNJAE	R,JAERI-1312	88 Y.IKEDA,	22089035

1.4+07	1.4+07	1	2JPNKTO	C,88MITO,261	88 K.KOBAYASHI,	22093008
1.4+07	1.4+07	1	2JPNKTO	J,NSE,106,332	90 I.KIMURA,	22214013
1.5+07	1.5+07	1	3POLLOU	P,INR-1773/I/PL/A,16	7809 U.GARUSKA,	30479005
1.1+07	1.8+07	11	3CPRAEP	R,INDC(CPR)-16	8908 LU HAN-LIN,	30523006
1.3+07	1.8+07	10	3POLIBJ	J,APP/B,11,853	8011 E.ZUPRANSKA,	30581003
3.0+06	3.0+06	1	3DDRTUD	J,CZJ/B,34,30	84 G.HELPER,	30652004
1.5+07	1.5+07	1	3PAKNIL	J,NIM,215,193	83 N.A.KHAN,	30654003
8.5+06	8.5+06	1	3CPRAEP	R,INDC(CPR)-16	8909 LU HANLIN,	30733006
1.5+07	1.5+07	1	3BANSAV	R,INDC(BAN)-003	8609 N.I.MOLLA,	30825008
1.4+07	1.5+07	2	3BANRAM	C,94GATLIN,2,938	9405 N.I.MOLLA,	31449004
1.5+07	1.5+07	1	4CCPKAZ	J,YF,10,(1),44	6907 V.N.LEVKOVSKIJ,	40226010
1.4+07	1.5+07	7	4RUSRI	R,INDC(CCP)-402	9701 A.A.FILATENKOV,	41240009
1.5+07	1.5+07	1	4CCPUFT	J,VAT/F,1,(18),15	77 G.P.DOLYA,	88006002

$^{51}\text{V}(n,\alpha)^{48}\text{Sc}$ 