^{14}C(d,t)

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu and J. E. Purcell	NDS 198,1 (2024)	1-Aug-2024

1966Gl01: ^{14}C(d,t) E=12 MeV; measured $\sigma(\theta)$. Deduced levels, J, Spectroscopic factors, reduced widths θ^2.
1976We01: ^{14}C(pol. d,t) E=14 MeV; measured σ(E,θ), polarization parameters A(Et,θ) for $\theta\approx20°$ to 105°. Deduced S. Enriched targets.

^{13}C Levels

Preferred S values from (1976We01) are listed; authors suggest ±50% uncertainties are a realistic estimation.

E(level)[†]	J^{π}[†]	S[†]	Comments
0	$1/2^-$	1.00	$\sigma(\theta=10°)$=42.4 (1966Gl01: no units).
3086	$1/2^+$	0.06	$\sigma(\theta=10°)$=2.5 (1966Gl01: no units).
3684	$3/2^-$	1.0	$\sigma(\theta=10°)$=8.3 (1966Gl01: no units).
3854	$5/2^+$	0.08	$\sigma(\theta=10°)$=1.3 (1966Gl01: no units).

[†] From DWBA analysis of spectroscopic factors in (1976We01).