

$^{12}\text{C}(\alpha,\text{t})$ 1972Ha08				
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

1969Ga11: $^{12}\text{C}(\alpha,\text{t})$ E=56 MeV; measured $\sigma(\theta,E_{\text{t0}})$ for $\theta=10^\circ$ to 60° .
1972Ha08: $^{12}\text{C}(\alpha,\text{t})$ E=104 MeV; measured $\sigma(\theta,E_{\text{t0}})$ for $\theta=10^\circ$ to 70° . Compared with $(\alpha,^3\text{He})$ cross sections. Deduced absolute S=1.48.
1990Go05: $^{12}\text{C}(\alpha,\text{t})$ E=160 MeV; measured $\sigma(E_{\text{t0}},\theta=20.7^\circ)$.
1994Da32: $^{12}\text{C}(\alpha,\text{t})$ E=90 MeV; measured $\sigma(\theta,E_{\text{t0}})$ for $\theta\approx 20^\circ-80^\circ$; analyzed nuclear rainbow effects.

^{13}N Levels				
E(level)	J^π	L	S	Comments
0	$1/2^-$	1	1.82	$J^\pi,\text{L,S}$: From DWBA analysis in (1972Ha08).