

¹²C(¹⁶O,¹⁵N),(¹⁶O,¹³N)

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

[1979Pr07](#): ¹²C(¹⁶O,¹⁵N) E=128 MeV; measured $\sigma(E,\theta)$ for $\theta=15^\circ$ to 30° . Deduced S via DWBA.

[2023Me12](#): ¹²C(¹⁶O,¹³N): Measured production yields of 240 MeV/nucleon ^{12,14}C, ^{14,16}N and ¹⁶O projectiles on a carbon target at the Lanzhou RIBLL2 facility. Deduced cross sections for ¹³N production using a ¹⁶O beam.

¹³N Levels

E(level)	J ^π [†]	S [†]
0	1/2 ⁻	0.29
2.37×10 ³	1/2 ⁺	0.04
3.5×10 ³	5/2 ⁺	0.15

[†] From DWBA analysis of spectroscopic factors in ([1975Na15](#)).