

$^{10}\text{B}(\alpha,\text{n})$ **1973Va25**

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

1935Ru01: $^{10}\text{B}(\alpha,\text{n})$. Measured ^{13}N $T_{1/2} \approx 14$ minutes.

1956Qu04: $^{10}\text{B}(\alpha,\text{n})$ $E=8.0$ MeV; measured states at $^{13}\text{N}^*$ (2.4 MeV 3, 3.6 3, (4.3 3), 5.0 3).

1973Va25: $^{10}\text{B}(\alpha,\text{n})$ $E=1.0\text{-}5.0$ MeV; studied excitation functions and deduced ^{14}N levels and level parameters.

1975Wi04: $^{10}\text{B}(\alpha,\text{n})$ $E=2\text{-}10$ MeV; studied excitation functions and deduced ^{14}N levels and level parameters.

1976Du08: $^{10}\text{B}(\alpha,\text{n}_{0,1})$ $E=18\text{-}20$ MeV; measured $\sigma(E,\theta)$.

1977Li19: $^{10}\text{B}(\alpha,\text{n})$; analyzed $\sigma(E < 7$ MeV).

1979Ba48: $^{10}\text{B}(\alpha,\text{n})$ $E=3\text{-}7.5$ MeV; measured neutron yield, deduced $\sigma(E)$.

1979Gi09: $^{10}\text{B}(\alpha,\text{n})$ $E=4\text{-}14$ MeV; measured $\sigma(E)$ via activation technique.

1983Ro26: $^{10}\text{B}(\alpha,\text{n})$ $E=3.2\text{-}14$ MeV; measured yield.

2019Li42: $^{10}\text{B}(\alpha,\text{n}_0)$ $E=2.2\text{-}4.9$ MeV; measured $\sigma(E,\theta)$, analyzed available data.

2020Li08: $^{10}\text{B}(\alpha,\text{n}_0)$ $E=575\text{-}2522$ keV. Measured $\sigma(\theta)$, analyzed available data. Discussed astrophysical relevance.

2021Wi02: $^{10}\text{B}(\alpha,\text{n})$: Analyzed available $\sigma(E_\alpha,\theta)$ data for astrophysically relevant reactions.

2023Gu04: $^{10}\text{B}(\alpha,\text{n}), (\alpha,\text{X})$ $E=0.21\text{-}1.4$ MeV; R-matrix analysis of available data.

 ^{13}N Levels

E(level) [†]	T _{1/2}	Comments
0	≈ 14 min	T _{1/2} : From (1935Ru01).
2366		
3.51×10^3		
3.55×10^3		

[†] From (1973Va25).