

H(${}^{19}\text{C}, {}^{19}\text{N}$), C(${}^{19}\text{C}, {}^{19}\text{N}$) 2016Ta07

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	G. C. Sheu, J. H. Kelley		ENSDF	06-Nov-2018

2016Ta07: The charge-exchange cross sections of ${}^{12-19}\text{C}(p,n){}^{12-19}\text{N}$ reactions were measured in inverse kinematics at the GSI/FRS facility. Beams of $E({}^{12-19}\text{C})\approx 950$ MeV/nucleon ions were identified via ΔE -time-of-flight techniques before bombarding either a graphite (4.01 g/cm^2) or a polyethylene (3.625 g/cm^2) target. The reaction products were identified using the MUSIC2 multi-sampling segmented ion chamber. The charge exchange cross sections to ${}^{19}\text{N}$ are $\sigma(\text{H target})=1.88\text{ mb } 65$ and $\sigma(\text{C target})=7.66\text{ mb } 80$.

 ${}^{19}\text{N}$ LevelsE(level)

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