
 ${}^{58}\text{Fe}({}^{16}\text{O}, {}^{14}\text{C})$ **1980Ha09**

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	E. Browne, J. K. Tuli		NDS 114, 1849 (2013)	31-Dec-2012

$E({}^{16}\text{O})=50$ MeV. Measured $\sigma(\theta)$, $\theta(\text{c.m.})\approx 30^\circ$ to 60° . Enriched target (82.5%), magnetic spectrograph, FWHM ≈ 65 keV. DWBA analysis for various optical potentials. Data compared with (${}^3\text{He},n$) data from literature.

 ${}^{60}\text{Ni}$ Levels

<u>E(level)</u>	<u>L[†]</u>
0.0	0
1330	2
2500	4
3330	0
3570	
3660	4
4040	3

[†] From comparison of $\sigma(\theta)$ to DWBA calculation.