

${}^{208}\text{Pb}({}^{18}\text{O}, {}^{17}\text{C}), {}^{207}\text{Pb}({}^{18}\text{O}, {}^{17}\text{C})$ [1979Ba31](#)

<u>Type</u>	<u>Author</u>	<u>History</u>	<u>Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	J. H. Kelley, G. C. Sheu		ENSDF	01-May-2017

[1979Ba31](#): A beam of 93 MeV ${}^{18}\text{O}$ ions impinged on either a ${}^{208}\text{Pb}$ (98.2% enriched) or ${}^{207}\text{Pb}$ (92.4% enriched) carbon foil backed lead target with an areal density near $250 \mu\text{g}/\text{cm}^2$. Reaction products were detected at $\theta=80^\circ$ and $\theta=85^\circ$ in the Chalk River QD³ spectrometer focal plane. Energy resolutions were typically $\Delta E \approx 260$ keV. The Q-value $= -26.87$ MeV ²² was deduced for the reaction on ${}^{207}\text{Pb}$, which corresponds to $\Delta M({}^{17}\text{C})=21.10$ MeV ²².

 ${}^{17}\text{C}$ Levels

<u>E(level)</u>	<u>Comments</u>
0	$\Delta M({}^{17}\text{C})=21.10$ MeV ²² was deduced.