

$^{140}\text{Ce}(\text{d},^6\text{Li})$ 1977Mi02

| <u>Type</u> | <u>Author</u> | <u>History Citation</u> | <u>Literature Cutoff Date</u> |
|-----------------|-----------------|-------------------------|-------------------------------|
| Full Evaluation | E. A. Mccutchan | NDS 152, 331 (2018) | 1-Apr-2018 |

E(d)=35 MeV. Measured $\sigma(\theta)$ using two adjacent position sensitive solid state detectors mounted in the focal plane of a dispersion matched spectrometer (FWHM=60-90 keV); DWBA analysis.

 ^{136}Ba Levels

| <u>E(level)</u> | <u>J^π[†]</u> | <u>S[‡]</u> | <u>Comments</u> |
|-----------------|---------------------------------------|----------------------|--|
| 0.0 | 0 ⁺ | 0.041 | $d\sigma/d\Omega$ (first maximum)=1.96 $\mu\text{b}/\text{sr}$ 25. |
| 818. | 2 ⁺ | 0.067 | $d\sigma/d\Omega$ (first maximum)=1.03 $\mu\text{b}/\text{sr}$ 18. |

[†] Assumed for DWBA calculation.

[‡] From $d\sigma/d\Omega_{\text{exp}} = N * (S / (2J + 1)) * d\sigma/d\Omega_{\text{DWBA}}$ with N=2.67.