

Table 3.6 from (2010PU04): Experimental values of astrophysical  $S$ -factor for the reaction  ${}^2\text{H}(p, \gamma){}^3\text{He}$  at zero energy,  $S(0)$ , by various methods.

References	$S(0)$ (eV · b)	Comments
(1997SC31) <sup>a</sup>	$0.166 \pm 0.006$	Extrapolated from data with $E_p = 16$ to $76$ keV
(1999AN35)	$0.20 \pm 0.07$	Polynomial fit to existing data
(2002CA28)	$0.216 \pm 0.006$	Extrapolated from data with $E_p = 2.5$ to $20$ keV
(2004DE48) <sup>b</sup>	$0.223 \pm 0.010$	$R$ -matrix analysis of existing data
(2009AR02)	$0.162 \pm 0.019$	Analysis of existing data
	$0.19 \pm 0.03$	Average of most recent measurements; see text

<sup>a</sup> Obtained M1 percentage of  $S(0)$  to be  $54 \pm 4$  % or  $0.090 \pm 0.007$  eV · b.

<sup>b</sup> Obtained M1, E1 contributions to  $S(0)$  to be  $0.134 \pm 0.006$  eV · b and  $0.089 \pm 0.004$  eV · b, respectively.