

$^{31}\text{Si}(\text{n},\gamma)$ 2001Pa52

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	15-Jan-2020

[2001Pa52](#) (also [1997Ro26](#)): E(n)=thermal. Measured prompt $E_\gamma=9201.798$ keV 5 from the capture state to g.s. using HPGe detectors at ILL-Grenoble reactor facility, under the AVOGADRO metrology project.

[1991Th03](#): E(n)=thermal and epithermal. Measured capture σ , and isotope ratio of ^{32}Si and ^{30}Si . Measured $\sigma=73$ mb 6 for thermal neutrons.

 ^{32}Si Levels

E(level)	J^π	Comments
0.0	0^+	
(9203.218 5)	$1^+, 2^+$	E(level): this value is in disagreement with S(n)=9200.0 3 in 2017Wa10 . J^π : s-wave capture in $3/2^+$ g.s. of ^{31}S .

 $\gamma(^{32}\text{Si})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Comments
9201.798 5	(9203.218)	$1^+, 2^+$	0.0	0^+	E_γ : from 2001Pa52 .

 $^{31}\text{Si}(\text{n},\gamma)$ 2001Pa52Level Scheme