

<sup>31</sup>Si(n, $\gamma$ ) E=th

2001Pa52

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 201,1 (2025)	31-Oct-2024

2001Pa52 (also 1997Ro26): E(n)=thermal from the high-flux reactor of ILL in Grenoble.  $\gamma$  rays were detected with HPGe detectors. Measured prompt E $\gamma$  from the capture state to g.s.. Measurement is under the AVOGADRO metrology project.

1991Th03: E(n)=thermal and epithermal from the DR-3 reactor at Research Center Riso, Denmark. Measured capture  $\sigma$ , and isotope ratio of <sup>32</sup>Si and <sup>30</sup>Si. Measured  $\sigma$ =73 mb 6 for thermal neutrons.

<sup>32</sup>Si Levels

E(level)	J $\pi$	Comments
0.0	0 <sup>+</sup>	E(level): this value is in disagreement with S(n)=9200.0 3 in 2021Wa16. J $\pi$ : s-wave capture in 3/2 <sup>+</sup> g.s. of <sup>31</sup> S.
(9203.218 5)	1 <sup>+</sup> ,2 <sup>+</sup>	

$\gamma$ (<sup>32</sup>Si)

E $\gamma$	E <sub>i</sub> (level)	J $\pi_i$	E <sub>f</sub>	J $\pi_f$	Comments
9201.798 5	(9203.218)	1 <sup>+</sup> ,2 <sup>+</sup>	0.0	0 <sup>+</sup>	E $\gamma$ : from 2001Pa52.

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Level Scheme

