

# Silicon

**Inchi:** InChI=1S/Si3/c1-2-3-1  
**InchiKey:** VJNZTIUQOVUHQB-UHFFFAOYSA-N  
**Formula:** Si3  
**SMILES:** [Si]1[Si][Si]1  
**Mol. weight [g/mol]:** 84.26  
**CAS:** 12597-37-4

## Physical Properties

Property code	Value	Unit	Source
ea	2.40 ± 0.03	eV	NIST Webbook
ea	2.30 ± 0.00	eV	NIST Webbook
ea	2.33	eV	NIST Webbook
ea	2.00 ± 0.20	eV	NIST Webbook
ea	2.60	eV	NIST Webbook
ie	8.00 ± 0.30	eV	NIST Webbook
log10ws	7.15		Crippen Method
logp	-1.142		Crippen Method

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C12597374&Units=SI>

## Legend

**ea:** Electron affinity  
**ie:** Ionization energy  
**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient

Latest version available from:

<https://www.chemeo.com/cid/58-771-2/Silicon.pdf>

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