

Silicon dimer

Inchi: InChI=1S/Si2/c1-2
InchiKey: NTQGILPNLZZOJH-UHFFFAOYSA-N
Formula: Si2
SMILES: [Si]#[Si]
Mol. weight [g/mol]: 56.17
CAS: 12597-35-2

Physical Properties

Property code	Value	Unit	Source
ea	2.23 ± 0.01	eV	NIST Webbook
ea	2.20 ± 0.01	eV	NIST Webbook
ea	2.20 ± 0.01	eV	NIST Webbook
ea	2.60	eV	NIST Webbook
ie	7.90	eV	NIST Webbook
ie	8.04 ± 0.13	eV	NIST Webbook
ie	7.30	eV	NIST Webbook
ie	7.40 ± 0.30	eV	NIST Webbook
log10ws	4.86		Crippen Method
logp	-0.762		Crippen Method

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C12597352&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

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/13-020-4/Silicon-dimer.pdf>

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