

Silyl radical

Inchi: InChI=1S/H3Si/h1H3
InchiKey: OLRJXMHANKMLTD-UHFFFAOYSA-N
Formula: H3Si
SMILES: [SiH3]
Mol. weight [g/mol]: 31.11
CAS: 13765-44-1

Physical Properties

Property code	Value	Unit	Source
ea	1.41 ± 0.03	eV	NIST Webbook
ea	1.41 ± 0.01	eV	NIST Webbook
ea	1.44 ± 0.10	eV	NIST Webbook
ea	1.44 ± 0.03	eV	NIST Webbook
ea	1.36	eV	NIST Webbook
hfpi	985.00 ± 3.00	kJ/mol	NIST Webbook
hfpiz	992.00 ± 4.00	kJ/mol	NIST Webbook
ie	8.74 ± 0.01	eV	NIST Webbook
ie	8.13 ± 0.01	eV	NIST Webbook
ie	8.17	eV	NIST Webbook
ie	8.13 ± 0.01	eV	NIST Webbook
ie	8.11 ± 0.07	eV	NIST Webbook
ie	8.01 ± 0.02	eV	NIST Webbook
ie	8.31 ± 0.07	eV	NIST Webbook
ie	8.14 ± 0.01	eV	NIST Webbook
log10ws	3.33		Crippen Method
logp	-1.184		Crippen Method

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C13765441&Units=SI>

Legend

ea:	Electron affinity
hfpi:	Enthalpy of formation of positive ion at standard conditions
hfpiz:	Enthalpy of formation of positive ion at 0K
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

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<https://www.chemeo.com/cid/41-373-2/Silyl-radical.pdf>

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