

Silylene

Inchi: InChI=1S/H2Si/h1H2
InchiKey: XMIJDTGORVPYLW-UHFFFAOYSA-N
Formula: H2Si
SMILES: [SiH2]
Mol. weight [g/mol]: 30.10
CAS: 13825-90-6

Physical Properties

Property code	Value	Unit	Source
affp	839.20	kJ/mol	NIST Webbook
basg	804.10	kJ/mol	NIST Webbook
ea	1.12 ± 0.02	eV	NIST Webbook
hfpi	1150.00	kJ/mol	NIST Webbook
ie	9.15 ± 0.02	eV	NIST Webbook
ie	8.24 ± 0.03	eV	NIST Webbook
ie	9.41 ± 0.03	eV	NIST Webbook
ie	8.92 ± 0.07	eV	NIST Webbook
log10ws	3.08		Crippen Method
logp	-0.916		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=C13825906&Units=SI>

Legend

affp: Proton affinity
basg: Gas basicity
ea: Electron affinity

hfpi: Enthalpy of formation of positive ion at standard conditions
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/42-669-3/Silylene.pdf>

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