

Silicon monosulfide

Inchi: InChI=1S/SSi/c1-2
InchiKey: DWFFKGPZNGKUPH-UHFFFAOYSA-N
Formula: SSi
SMILES: [Si][S]
Mol. weight [g/mol]: 60.15
CAS: 12504-41-5

Physical Properties

Property code	Value	Unit	Source
affp	683.00	kJ/mol	NIST Webbook
affp	627.00	kJ/mol	NIST Webbook
basg	660.20	kJ/mol	NIST Webbook
basg	596.60	kJ/mol	NIST Webbook
ie	10.53 ± 0.02	eV	NIST Webbook
log10ws	1.70		Crippen Method
logp	0.267		Crippen Method

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C12504415&Units=SI>

Legend

affp: Proton affinity
basg: Gas basicity
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/74-896-6/Silicon-monosulfide.pdf>

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