

silicon fluoride

Other names: Silylidyne, fluoro-
Inchi: InChI=1S/FSi/c1-2
InchiKey: ZHPNWZCWUUJAJC-UHFFFAOYSA-N
Formula: FSi
SMILES: F[Si]
Mol. weight [g/mol]: 47.08
CAS: 11128-24-8

Physical Properties

Property code	Value	Unit	Source
ea	0.81 ± 0.02	eV	NIST Webbook
ea	1.14	eV	NIST Webbook
ie	7.54 ± 0.16	eV	NIST Webbook
ie	7.28	eV	NIST Webbook
ie	7.26	eV	NIST Webbook
log10ws	2.17		Crippen Method
logp	0.039		Crippen Method

Sources

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C11128248&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307I>

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/74-881-2/silicon-fluoride.pdf>

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