

Hexachlorodisilane

Other names:	Si ₂ Cl ₆ Disilane, hexachloro-
Inchi:	InChI=1S/Cl ₆ Si ₂ /c1-7(2,3)8(4,5)6
InchiKey:	LXEXBJXDGVGRAR-UHFFFAOYSA-N
Formula:	Cl ₆ Si ₂
SMILES:	Cl[Si](Cl)(Cl)[Si](Cl)(Cl)Cl
Mol. weight [g/mol]:	268.89
CAS:	13465-77-5

Physical Properties

Property code	Value	Unit	Source
ie	11.00 ± 0.30	eV	NIST Webbook
ie	10.40	eV	NIST Webbook
ie	10.91	eV	NIST Webbook
log ₁₀ ws	0.65		Crippen Method
log _p	3.375		Crippen Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13465775&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

ie:	Ionization energy
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient

Latest version available from:

<https://www.chemeo.com/cid/16-969-9/Hexachlorodisilane.pdf>

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