Cyclohexasilane, dodecamethyl-

Other names:	Dodecamethylcyclohexasilane
	Dodecamethylcyclohexasilylene
Inchi:	InChI=1S/C12H36Si6/c1-13(2)14(3,4)16(7,8)18(11,12)17(9,10)15(13,5)6/h1-12H3
InchiKey:	RTCLHEHPUHREBC-UHFFFAOYSA-N
Formula:	C12H36Si6
SMILES:	C[Si]1(C)[Si](C)(C)[Si](C)(C)[Si](C)(C)[Si](C)(C)[Si]1(C)C
Mol. weight [g/mol]:	348.93
CAS:	4098-30-0

Physical Properties

Property code	Value	Unit	Source
ie	7.29 ± 0.01	eV	NIST Webbook
ie	7.79	eV	NIST Webbook
log10ws	9.40		Crippen Method
logp	4.721		Crippen Method
rinpol	1593.00		NIST Webbook
rinpol	1593.00		NIST Webbook
tf	528.80 ± 0.10	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	4.20	kJ/mol	528.80	NIST Webbook

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=C4098300&Units=SI

Legend

hfust:	Enthalpy of fusion at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
rinpol:	Non-polar retention indices
tf:	Normal melting (fusion) point