Silane, tetrakis(pentafluorophenyl)-

Other names: Tetra(pentafluorophenyl)silane
Inchi: InChI=1S/C24F20Si/c25-1-5(29)13(37)21(14(38)6(1)30)45(22-15(39)7(31)2(26)8(32)16(2
InchiKey: PVEYHXXYHXDHBS-UHFFFAOYSA-N
Formula: C24F20Si
SMILES: Fc1c(F)c(F)c([Si](c2c(F)c(F)c(F)c(F)c2F)(c2c(F)c(F)c(F)c(F)c2F)c2c(F)c(F)c(F)c(F)c2F)c(
Mol. weight [g/mol]: 696.31
CAS: 1524-78-3

Physical Properties

Property code	Value	Unit	Source
log10ws	-26.30		Crippen Method
logp	5.846		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	46.90	kJ/mol	518.00	NIST Webbook
hsubt	128.00 ± 1.20	kJ/mol	475.00	NIST Webbook
hvapt	80.60 ± 0.40	kJ/mol	514.00	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1524783&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hfust:	Enthalpy of fusion at a given temperature
hsubt:	Enthalpy of sublimation at a given temperature
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient