

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)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/ci9903071
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

Latest version available from:

<https://www.chemeo.com/cid/71-011-0/Silane-tetrakis-pentafluorophenyl.pdf>

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