

Pentasilane,dodecamethyl-

Inchi:	InChI=1S/C12H36Si5/c1-13(2,3)15(7,8)17(11,12)16(9,10)14(4,5)6/h1-12H3
InchiKey:	UBLFYETXWGACQO-UHFFFAOYSA-N
Formula:	C12H36Si5
SMILES:	C[Si](C)(C)[Si](C)(C)[Si](C)(C)[Si](C)(C)[Si](C)(C)C
Mol. weight [g/mol]:	320.84
CAS:	3704-46-9

Physical Properties

Property code	Value	Unit	Source
ie	7.11 ± 0.01	eV	NIST Webbook
log10ws	7.11		Crippen Method
logp	5.102		Crippen Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3704469&Units=SI

Legend

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/85-746-0/Pentasilane-dodecamethyl.pdf>

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