

Phosphonic acid, methyl-, bis(trimethylsilyl) ester

Other names:	Methylphosphonic acid (TMS-derivative) Methylphosphonic acid, bis(trimethylsilyl) ester Bis(trimethylsilyl)methylphosphonate Methylphosphonic acid, bis-TMS Methylphosphonic acid, 2tms derivative
Inchi:	InChI=1S/C7H21O3PSi2/c1-11(8,9-12(2,3)4)10-13(5,6)7/h1-7H3
InchiKey:	KFHCUPQNEZPPQU-UHFFFAOYSA-N
Formula:	C7H21O3PSi2
SMILES:	C[Si](C)(C)OP(C)(=O)O[Si](C)(C)C
Mol. weight [g/mol]:	240.38
CAS:	18279-83-9

Physical Properties

Property code	Value	Unit	Source
log10ws	0.70		Crippen Method
logp	3.512		Crippen Method
rinpol	1154.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1147.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1154.00		NIST Webbook
rinpol	1142.00		NIST Webbook
rinpol	1154.00		NIST Webbook
rinpol	1147.00		NIST Webbook
rinpol	1147.00		NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18279839&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
rinpol: Non-polar retention indices

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