D-Fructose, 1,3,4,5,6-pentakis-O-(trimethylsilyl)-

Other names: 1,3,4,5,6-Pentakis-O-(trimethylsilyl)fructose, (D)-
Fructose, acyclic, pentakis-TMS
D-Fructose, pentakis-TMS ether
Fructose, (5TMS)
D-Fructose, penta-TMS
B-Fructopyranose, TMS
Fructose, acyclic, TMS
Fructose TMS
Fructose TMS #3
Fructose TMS #2
Fructose TMS #1
D-Fructose, TMS
D-fructose, 5tms derivative

Inchi: InChI=1S/C21H52O6Si5/c1-28(2,3)23-16-18(22)20(26-31(10,11)12)21(27-32(13,14)15)1

InchiKey: LDUCAYFXHYLHLP-NJDAHSKKSA-N

Formula: C21H52O6Si5

SMILES: C[Si](C)(C)OCC(=O)C(O[Si](C)(C)C)C(O[Si](C)(C)C)C(CO[Si](C)(C)C)O[Si](C)(C)C

Mol. weight [g/mol]: 541.06

CAS: 19126-98-8

Physical Properties

Property code	Value	Unit	Source
log10ws	6.08		Crippen Method
logp	5.919		Crippen Method
rinpol	1867.00		NIST Webbook
rinpol	1867.00		NIST Webbook
rinpol	1875.00		NIST Webbook
rinpol	1805.10		NIST Webbook
rinpol	1842.00		NIST Webbook
rinpol	1864.00		NIST Webbook
rinpol	1855.00		NIST Webbook
ripol	1859.00		NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19126988&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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

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