

L-Ascorbic acid, 2,3,5,6-tetrakis-O-(trimethylsilyl)-

Other names:

Ascorbic acid, tetrakis-TMS ether

Ascorbic acid (4TMS)

Ascorbic acid, tetra-TMS

Ascorbic acid, tetrakis-O-TMS

Ascorbic acid, TMS

Ascorbate, tetra-TMS

Ascorbic acid, 4tms derivative

Inchi: InChI=1S/C18H40O6Si4/c1-25(2,3)20-13-14(22-26(4,5)6)15-16(23-27(7,8)9)17(18(19)21)

InchiKey: ZCJXSXDUVKLEK-LOACHALJSA-N

Formula: C18H40O6Si4

SMILES: C[Si](C)(C)OCC(O[Si](C)(C)C)C1OC(=O)C(O[Si](C)(C)C)=C1O[Si](C)(C)C

Mol. weight [g/mol]: 464.85

CAS: 55517-56-1

Physical Properties

Property code	Value	Unit	Source
log10ws	4.27		Crippen Method
logp	4.898		Crippen Method
rinpol	1946.40		NIST Webbook
rinpol	1946.40		NIST Webbook
rinpol	1971.00		NIST Webbook
rinpol	1977.00		NIST Webbook

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C55517561&Units=SI>

Legend

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

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