

# Gluconic acid, 2,3,4,6-tetrakis-O-(trimethylsilyl)-, lactone

Other names:

Gluconic acid, 1,5-lactone, tetrakis-TMS

Glucono-1,5-lactone, tetrakis-TMS

Gluconolactone, (4TMS)

Gluconolactone, tetrakis-O-TMS

Gluconolactone, TMS

Gluconic acid, 1,5-lactone, TMS

Gluconolactone (3r,4s,5r,6r)-, 4tms derivative

Inchi:

InChI=1S/C18H42O6Si4/c1-25(2,3)20-13-14-15(22-26(4,5)6)16(23-27(7,8)9)17(18(19)21

InchiKey:

VNGTZLYNGGLPIZ-QBPKDAKJSA-N

Formula:

C18H42O6Si4

SMILES:

C[Si](C)(C)OCC1OC(=O)C(O[Si](C)(C)C)C(O[Si](C)(C)C)C1O[Si](C)(C)C

Mol. weight [g/mol]:

466.86

CAS:

55515-29-2

## Physical Properties

Property code	Value	Unit	Source
log10ws	4.89		Crippen Method
logp	4.424		Crippen Method
rinpola	1919.00		NIST Webbook
rinpola	1916.00		NIST Webbook
rinpola	1916.00		NIST Webbook

## Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C55515292&Units=SI>

Crippen Method:

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

Crippen Method:

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## Legend

log10ws:

Log10 of Water solubility in mol/l

**logp:** Octanol/Water partition coefficient

**rinpol:** Non-polar retention indices

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