

# «alpha»-D-Glucopyranose, 1,2,3,4,6-pentakis-O-(trimethylsilyl)-

Other names:

Glucopyranoside, trimethylsilyl tetrakis-O-(trimethylsilyl)-, «alpha»-D-«alpha»-D-Glucopyranose, penta-TMS  
«alpha»-Glucopyranose, TMS  
«alpha»-Glucose, TMS  
«alpha»-D-Glucopyranose, TMS  
«ALPHA»-d-glucopyranose, 5tms derivative

**Inchi:** InChI=1S/C21H52O6Si5/c1-28(2,3)22-16-17-18(24-29(4,5)6)19(25-30(7,8)9)20(26-31(10

**InchiKey:** PPFHNIVPOLWPCF-WHZJULEDSA-N

**Formula:** C<sub>21</sub>H<sub>52</sub>O<sub>6</sub>Si<sub>5</sub>

**SMILES:** C[Si](C)(C)OCC1OC(O[Si](C)(C)C)C(O[Si](C)(C)C)C(O[Si](C)(C)C)C1O[Si](C)(C)C

**Mol. weight [g/mol]:** 541.06

**CAS:** 3327-61-5

## Physical Properties

Property code	Value	Unit	Source
log10ws	5.66		Crippen Method
logp	6.075		Crippen Method
rinpol	1924.00		NIST Webbook
rinpol	1924.00		NIST Webbook
rinpol	1924.00		NIST Webbook
ripol	1793.00		NIST Webbook
ripol	1793.00		NIST Webbook

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

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

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C3327615&Units=SI>

## 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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