

# Sucrose, TMS

**Other names:** Sucrose, octakis-TMS  
SUCROSE (8TMS)

**Inchi:** InChI=1S/C35H84O11Si8/c1-47(2,3)36-25-27-29(41-49(7,8)9)31(43-51(13,14)15)32(44-51)33(45-53)20-21-22-23-24(40)30-34(37,38)35(39)42-43(46)48-49(52)50(54)55

**InchiKey:** QREBRLWTL SJGQV-YFLTUFOPSA-N

**Formula:** C<sub>35</sub>H<sub>84</sub>O<sub>11</sub>Si<sub>8</sub>

**SMILES:** C[Si](C)(C)OCC1OC(OC2(O[Si](C)(C)C)OC(CO[Si](C)(C)C)C(O[Si](C)(C)C)C2O[Si](C)(C)C

**Mol. weight [g/mol]:** 905.72

## Physical Properties

Property code	Value	Unit	Source
log10ws	8.88		Crippen Method
logp	9.435		Crippen Method
rinpol	2750.00		NIST Webbook
rinpol	2714.00		NIST Webbook
rinpol	2737.40		NIST Webbook
rinpol	2714.00		NIST Webbook
rinpol	2737.40		NIST Webbook

## Sources

**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=R22025&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

Latest version available from:

<https://www.chemeo.com/cid/62-426-0/Sucrose-TMS.pdf>

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