

# Decanedioic acid, bis(tert-butyl dimethylsilyl) ester

**Other names:**

Sebacic acid, bis(tert-butyl dimethylsilyl) ester

Sebacic acid, diTBDMS

Sebacic acid, DMTBS

Sebacic acid, TBDMS

Bis[tert-butyl(dimethyl)silyl] sebacate

Sebacic acid, 2tbdms derivative

**Inchi:** InChI=1S/C22H46O4Si2/c1-21(2,3)27(7,8)25-19(23)17-15-13-11-12-14-16-18-20(24)26-2

**InchiKey:** XANNRUSHAVBUKW-UHFFFAOYSA-N

**Formula:** C22H46O4Si2

**SMILES:** CC(C)(C)[Si](C)(C)OC(=O)CCCCCCCC(=O)O[Si](C)(C)C(C)(C)C

**Mol. weight [g/mol]:** 430.77

**CAS:** 104255-98-3

## Physical Properties

Property code	Value	Unit	Source
log10ws	-2.86		Crippen Method
logp	7.204		Crippen Method
rinpol	2378.00		NIST Webbook
rinpol	2366.70		NIST Webbook
rinpol	2372.00		NIST Webbook
rinpol	2377.00		NIST Webbook
rinpol	2372.00		NIST Webbook
rinpol	2366.70		NIST Webbook
rinpol	2378.00		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=C104255983&Units=SI>

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

# Legend

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

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