# L-Threonine, N,O-bis(tert-butyldimethylsilyl)-, tert-butyldimethylsilyl ester

**Other names:** Thr, N,O,O-tris-TBDMS
Threonine tri-TBDMS
Thr, (3TBDMS)-
Thr, TBDMS
allo-Thr, TBDMS
L-threonine, 3tbdms derivative

**Inchi:** InChI=1S/C22H51NO3Si3/c1-17(25-28(13,14)21(5,6)7)18(23-27(11,12)20(2,3)4)19(24)2

**InchiKey:** DUARMRXEYAQNOD-ZWKOTPCHSA-N

**Formula:** C22H51NO3Si3

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

**Mol. weight [g/mol]:** 461.90

**CAS:** 107715-94-6

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| log10ws | -0.55 | | Crippen Method |
| logp | 6.909 | | Crippen Method |
| rinpol | 2029.00 | | NIST Webbook |
| rinpol | 2041.00 | | NIST Webbook |
| rinpol | 2029.00 | | NIST Webbook |

## Sources

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

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C107715946&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