

# 1-Tridecanol, tert-butyldimethylsilyl ether

**Other names:** tert-Butyl(dimethyl)(tridecyloxy)silane  
1-Tridecanol, tBDMS  
1-Tridecanol, tbdms derivative

**Inchi:** InChI=1S/C19H42OSi/c1-7-8-9-10-11-12-13-14-15-16-17-18-20-21(5,6)19(2,3)4/h7-18H2

**InchiKey:** YIZAVXUIXCTEBP-UHFFFAOYSA-N

**Formula:** C19H42OSi

**SMILES:** CCCCCCCCCCCCCO[Si](C)(C)C(C)(C)C

**Mol. weight [g/mol]:** 314.62

## Physical Properties

| Property code | Value   | Unit | Source         |
|---------------|---------|------|----------------|
| log10ws       | -4.91   |      | Crippen Method |
| logp          | 7.319   |      | Crippen Method |
| rinpol        | 1888.70 |      | NIST Webbook   |
| rinpol        | 1883.90 |      | NIST Webbook   |
| rinpol        | 1888.70 |      | 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=U333025&Units=SI>

## Legend

**log10ws:** Log10 of Water solubility in mol/l

**logp:** Octanol/Water partition coefficient

**rinpol:** Non-polar retention indices

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