

1-Pentanol, tert-butyldimethylsilyl ether

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|-----------------------------|--|
| Other names: | tert-Butyl(dimethyl)(pentyloxy)silane 1-Pentanol, DMTBS 1-Pentanol, O-TBDMS 1-Pentanol, tBDMS 1-Pentanol, tbdms derivative |
| Inchi: | InChI=1S/C11H26OSi/c1-7-8-9-10-12-13(5,6)11(2,3)4/h7-10H2,1-6H3 |
| InchiKey: | JZZUDMZDKGREBV-UHFFFAOYSA-N |
| Formula: | C11H26OSi |
| SMILES: | CCCCCO[Si](C)(C)C(C)(C)C |
| Mol. weight [g/mol]: | 202.41 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|------|----------------|
| log10ws | -1.57 | | Crippen Method |
| logp | 4.198 | | Crippen Method |
| rinpol | 1107.00 | | NIST Webbook |
| rinpol | 1100.10 | | NIST Webbook |
| rinpol | 1107.00 | | NIST Webbook |
| rinpol | 1107.00 | | NIST Webbook |
| rinpol | 1100.10 | | NIST Webbook |
| ripol | 1106.00 | | NIST Webbook |
| ripol | 1106.00 | | NIST Webbook |
| ripol | 1106.00 | | NIST Webbook |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U333044&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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