# MONOCAPRYLIN, BIS(TRIMETHYLSILYL)-DERIV.

**Other names:** Monocaprylin, bis(trimethylsilyl)
Octanoic acid, 2,3-bis-(OTMS) propyl ester
Octanoic acid, 2,3-bis-(OTMS) propyl ester («alpha»-glyceryl caprilate)
**Inchi:** InChI=1S/C17H38O4Si2/c1-8-9-10-11-12-13-17(18)19-14-16(21-23(5,6)7)15-20-22(2,3)4
**InchiKey:** DJRROAREVKKRCI-UHFFFAOYSA-N
**Formula:** C17H38O4Si2
**SMILES:** CCCCCCCC(=O)OCC(CO[Si](C)(C)C)O[Si](C)(C)C
**Mol. weight [g/mol]:** 362.66

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -1166.05 | kJ/mol | Cheméo Relay (1.0) |
| hvap | 74.69 | kJ/mol | Cheméo Relay (1.0) |
| log10ws | -3.39 | | Cheméo Relay (1.0) |
| logp | 4.962 | | Crippen Method |
| pc | 785.43 | kPa | Cheméo Relay (1.0, beta) |
| rinpol | 1851.00 | | NIST Webbook |
| tb | 577.84 | K | Cheméo Relay (1.0) |
| tc | 717.84 | K | Cheméo Relay (1.0) |
| tf | 241.92 | K | Cheméo Relay (1.0) |

## Sources

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C1851214&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws
**Cheméo Relay (1.0):**
**Cheméo Relay (1.0, beta):**

## Legend

| | |
|---|---|
| **hf:** | Enthalpy of formation at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **pc:** | Critical Pressure |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |