# Octadecyl trimethylsilyl phthalate

**Other names:** 1,2-Benzenedicarboxylic acid, octadecyl trimethylsilyl ester
**Inchi:** InChI=1S/C29H50O4Si/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-22-25-32-28(30)26
**InchiKey:** QMGNVSKAFSNNCO-UHFFFAOYSA-N
**Formula:** C29H50O4Si
**SMILES:** CCCCCCCCCCCCCCCCCCOC(=O)c1ccccc1C(=O)O[Si](C)(C)C
**Mol. weight [g/mol]:** 490.79

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| af | 1.3002 | | Cheméo Relay (1.0) |
| hf | -1123.00 | kJ/mol | Cheméo Relay (1.0) |
| hvap | 130.25 | kJ/mol | Cheméo Relay (1.0) |
| log10ws | -8.31 | | Cheméo Relay (1.0) |
| logp | 9.097 | | Crippen Method |
| pc | 25.13 | kPa | Cheméo Relay (1.0, beta) |
| rinpol | 3220.00 | | NIST Webbook |
| rinpol | 3220.00 | | NIST Webbook |
| tb | 689.01 | K | Cheméo Relay (1.0) |
| tc | 892.99 | K | Cheméo Relay (1.0) |
| tf | 285.55 | K | Cheméo Relay (1.0) |
| vc | 1.667 | m3/kmol | Cheméo Relay (1.0) |

## Sources

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=U373701&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

| | |
|---|---|
| **af:** | Acentric Factor |
| **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 |
| **vc:** | Critical Volume |

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