

Tetramethyltetraphenylcyclotetrasiloxane

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|-----------------------------|---|
| Other names: | 2,4,6,8-Tetramethyl-2,4,6,8-tetraphenyl-[1,3,5,7,2,4,6,8]cyclotetrasiloxane 2,4,6,8-tetramethyl-2,4,6,8-tetraphenylcyclotetrasiloxane 1,1,5',7'-Tetramethyl-1',3',5,7-tetraphenylcyclotetrasiloxane |
| Inchi: | InChI=1S/C28H32O4Si4/c1-33(25-17-9-5-10-18-25)29-34(2,26-19-11-6-12-20-26)31-36(|
| InchiKey: | IRVZFACCNZRHSJ-UHFFFAOYSA-N |
| Formula: | C28H32O4Si4 |
| SMILES: | C[Si]1(c2ccccc2)O[Si](C)(c2ccccc2)O[Si](C)(c2ccccc2)O[Si](C)(c2ccccc2)O1 |
| Mol. weight [g/mol]: | 544.89 |
| CAS: | 77-63-4 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------------|------|----------------|
| log10ws | -14.65 | | Crippen Method |
| logp | 3.983 | | Crippen Method |
| rinpol | 2736.00 | | NIST Webbook |
| rinpol | 2736.00 | | NIST Webbook |
| tt | 373.00 ± 0.10 | K | NIST Webbook |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-------|--------|-----------------|--------------|
| hfust | 24.62 | kJ/mol | 373.40 | 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=C77634&Units=SI |

Legend

| | |
|-----------------|---|
| hfust: | Enthalpy of fusion at a given temperature |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| rinpol: | Non-polar retention indices |
| tt: | Triple Point Temperature |

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