

2',3,4,4'-tetrachloro-6-methyl-diphenylmethane

| | |
|-----------------------------|--|
| Inchi: | InChI=1S/C14H10Cl4/c1-8-4-13(17)14(18)6-10(8)5-9-2-3-11(15)7-12(9)16/h2-4,6-7H,5H2 |
| InchiKey: | OKBPQVXEXVYBGB-UHFFFAOYSA-N |
| Formula: | C14H10Cl4 |
| SMILES: | Cc1cc(Cl)c(Cl)cc1Cc1ccc(Cl)cc1Cl |
| Mol. weight [g/mol]: | 320.04 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 195.95 | kJ/mol | Joback Method |
| hf | 20.46 | kJ/mol | Joback Method |
| hfus | 34.94 | kJ/mol | Joback Method |
| hvap | 72.16 | kJ/mol | Joback Method |
| log10ws | -6.79 | | Crippen Method |
| logp | 6.199 | | Crippen Method |
| mcvol | 209.560 | ml/mol | McGowan Method |
| pc | 2218.71 | kPa | Joback Method |
| rinpol | 2203.60 | | NIST Webbook |
| rinpol | 2203.60 | | NIST Webbook |
| rinpol | 2215.50 | | NIST Webbook |
| tb | 747.70 | K | Joback Method |
| tc | 1002.50 | K | Joback Method |
| tf | 482.66 | K | Joback Method |
| vc | 0.799 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 466.32 | J/molxK | 747.70 | Joback Method |
| cpg | 477.97 | J/molxK | 790.17 | Joback Method |
| cpg | 488.65 | J/molxK | 832.63 | Joback Method |
| cpg | 498.43 | J/molxK | 875.10 | Joback Method |
| cpg | 507.35 | J/molxK | 917.56 | Joback Method |
| cpg | 515.47 | J/molxK | 960.03 | Joback Method |
| cpg | 522.84 | J/molxK | 1002.50 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0006543 | Paxs | 482.66 | Joback Method |
| dvisc | 0.0004524 | Paxs | 526.83 | Joback Method |
| dvisc | 0.0003312 | Paxs | 571.01 | Joback Method |
| dvisc | 0.0002535 | Paxs | 615.18 | Joback Method |
| dvisc | 0.0002012 | Paxs | 659.35 | Joback Method |
| dvisc | 0.0001643 | Paxs | 703.53 | Joback Method |
| dvisc | 0.0001375 | Paxs | 747.70 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R181125&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| dvisc: | Dynamic viscosity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/82-566-3/2-3-4-4-tetrachloro-6-methyl-diphenylmethane.pdf>

Generated by Cheméo on 2024-10-11 18:50:47.38369553 +0000 UTC m=+3253510.020664779.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.