

cis-1,2-Diphenyl-1-methylcyclopropane

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|-----------------------------|---|
| Inchi: | InChI=1S/C16H16/c1-16(14-10-6-3-7-11-14)12-15(16)13-8-4-2-5-9-13/h2-11,15H,12H2,1 |
| InchiKey: | MEPKNRHJYLWJON-JKSUJKDBSA-N |
| Formula: | C16H16 |
| SMILES: | CC1(c2ccccc2)CC1c1ccccc1 |
| Mol. weight [g/mol]: | 208.30 |
| CAS: | 14161-72-9 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|-------------|----------------------|----------------|
| gf | 356.21 | kJ/mol | Joback Method |
| hf | 167.19 | kJ/mol | Joback Method |
| hfus | 18.19 | kJ/mol | Joback Method |
| hvap | 54.22 | kJ/mol | Joback Method |
| ie | 7.90 ± 0.03 | eV | NIST Webbook |
| log10ws | -4.26 | | Crippen Method |
| logp | 4.132 | | Crippen Method |
| mcvol | 177.920 | ml/mol | McGowan Method |
| pc | 2629.85 | kPa | Joback Method |
| tb | 621.15 | K | Joback Method |
| tc | 878.60 | K | Joback Method |
| tf | 360.52 | K | Joback Method |
| vc | 0.669 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 457.16 | J/mol×K | 621.15 | Joback Method |
| cpg | 476.92 | J/mol×K | 664.06 | Joback Method |
| cpg | 495.16 | J/mol×K | 706.97 | Joback Method |
| cpg | 512.16 | J/mol×K | 749.87 | Joback Method |
| cpg | 528.21 | J/mol×K | 792.78 | Joback Method |
| cpg | 543.60 | J/mol×K | 835.69 | Joback Method |
| cpg | 558.60 | J/mol×K | 878.60 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C14161729&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 |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvp: | Enthalpy of vaporization at standard conditions |
| ie: | Ionization energy |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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