

2,4-diphenyl-1-pentene

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|-----------------------------|---|
| Inchi: | InChI=1S/C17H18/c1-14(16-9-5-3-6-10-16)13-15(2)17-11-7-4-8-12-17/h3-12,15H,1,13H2 |
| InchiKey: | DZQKKQAJKNIGGW-UHFFFAOYSA-N |
| Formula: | C17H18 |
| SMILES: | <chem>C=C(CC(C)c1ccccc1)c1ccccc1</chem> |
| Mol. weight [g/mol]: | 222.32 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 393.93 | kJ/mol | Joback Method |
| hf | 189.21 | kJ/mol | Joback Method |
| hfus | 21.76 | kJ/mol | Joback Method |
| hvap | 57.01 | kJ/mol | Joback Method |
| log10ws | -5.13 | | Crippen Method |
| logp | 4.894 | | Crippen Method |
| mvol | 198.570 | ml/mol | McGowan Method |
| pc | 2197.95 | kPa | Joback Method |
| rinpol | 1805.60 | | NIST Webbook |
| rinpol | 1805.60 | | NIST Webbook |
| tb | 637.84 | K | Joback Method |
| tc | 877.23 | K | Joback Method |
| tf | 303.47 | K | Joback Method |
| vc | 0.748 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 502.27 | J/mol×K | 637.84 | Joback Method |
| cpg | 521.45 | J/mol×K | 677.74 | Joback Method |
| cpg | 539.16 | J/mol×K | 717.64 | Joback Method |
| cpg | 555.50 | J/mol×K | 757.54 | Joback Method |
| cpg | 570.57 | J/mol×K | 797.43 | Joback Method |
| cpg | 584.46 | J/mol×K | 837.33 | Joback Method |
| cpg | 597.29 | J/mol×K | 877.23 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R316084&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

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 |
| h vap: | 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 |
| r in pol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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