

Cyclopentene, 3-ethenyl-3-methyl-5-(1,5-dimethylhexyl)-4-(2,6,10

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|-----------------------------|---|
| Inchi: | InChI=1S/C30H56/c1-10-30(9)21-20-28(27(8)19-12-15-24(4)5)29(30)22-26(7)18-13-17-2 |
| InchiKey: | DWQLFMPKIWZFB-D-UHFFFAOYSA-N |
| Formula: | C30H56 |
| SMILES: | <chem>C=CC1(C)C=CC(C(C)CCCC(C)C)C1CC(C)CCCC(C)CCCC(C)C</chem> |
| Mol. weight [g/mol]: | 416.77 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 322.96 | kJ/mol | Joback Method |
| hf | -470.68 | kJ/mol | Joback Method |
| hfus | 45.56 | kJ/mol | Joback Method |
| hvap | 78.54 | kJ/mol | Joback Method |
| log10ws | -10.05 | | Crippen Method |
| logp | 10.102 | | Crippen Method |
| mcvol | 414.100 | ml/mol | McGowan Method |
| pc | 684.93 | kPa | Joback Method |
| rmpol | 2425.00 | | NIST Webbook |
| tb | 885.62 | K | Joback Method |
| tc | 1085.40 | K | Joback Method |
| tf | 378.18 | K | Joback Method |
| vc | 1.589 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1424.04 | J/mol×K | 885.62 | Joback Method |
| cpg | 1451.20 | J/mol×K | 918.92 | Joback Method |
| cpg | 1477.46 | J/mol×K | 952.21 | Joback Method |
| cpg | 1502.98 | J/mol×K | 985.51 | Joback Method |
| cpg | 1527.88 | J/mol×K | 1018.81 | Joback Method |
| cpg | 1552.33 | J/mol×K | 1052.11 | Joback Method |
| cpg | 1576.45 | J/mol×K | 1085.40 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R619071&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |
| Crippen Method: | https://www.chemeo.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 |
| 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 |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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