

1-methyl-trans-2-(4-methyl)pentyl-cyclopropane

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|-----------------------------|---------------------------------------------------------------------------|
| Inchi: | InChI=1S/C10H20/c1-8(2)5-4-6-10-7-9(10)3/h8-10H,4-7H2,1-3H3/t9-,10-/m1/s1 |
| InchiKey: | ZSPHCYPRDPJVKP-NXEZZACHSA-N |
| Formula: | C10H20 |
| SMILES: | CC(C)CCCC1CC1C |
| Mol. weight [g/mol]: | 140.27 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 83.92 | kJ/mol | Joback Method |
| hf | -202.55 | kJ/mol | Joback Method |
| hfus | 17.34 | kJ/mol | Joback Method |
| hvap | 37.07 | kJ/mol | Joback Method |
| log10ws | -3.18 | | Crippen Method |
| logp | 3.469 | | Crippen Method |
| mcvol | 140.900 | ml/mol | McGowan Method |
| pc | 2327.03 | kPa | Joback Method |
| rinpol | 926.53 | | NIST Webbook |
| rinpol | 929.28 | | NIST Webbook |
| rinpol | 930.01 | | NIST Webbook |
| rinpol | 927.46 | | NIST Webbook |
| rinpol | 929.28 | | NIST Webbook |
| tb | 429.83 | K | Joback Method |
| tc | 608.72 | K | Joback Method |
| tf | 201.16 | K | Joback Method |
| vc | 0.545 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 300.84 | J/mol×K | 429.83 | Joback Method |
| cpg | 318.07 | J/mol×K | 459.65 | Joback Method |
| cpg | 334.51 | J/mol×K | 489.46 | Joback Method |
| cpg | 350.20 | J/mol×K | 519.28 | Joback Method |
| cpg | 365.16 | J/mol×K | 549.09 | Joback Method |

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|-------|-----------|---------|--------|---------------|
| cpg | 379.41 | J/molxK | 578.91 | Joback Method |
| cpg | 393.00 | J/molxK | 608.72 | Joback Method |
| dvisc | 0.0014960 | Paxs | 201.16 | Joback Method |
| dvisc | 0.0009861 | Paxs | 239.27 | Joback Method |
| dvisc | 0.0007289 | Paxs | 277.38 | Joback Method |
| dvisc | 0.0005796 | Paxs | 315.50 | Joback Method |
| dvisc | 0.0004842 | Paxs | 353.61 | Joback Method |
| dvisc | 0.0004189 | Paxs | 391.72 | Joback Method |
| dvisc | 0.0003719 | Paxs | 429.83 | Joback Method |

Sources

| | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R137450&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

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 |

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