

2-Cyclopentylethanol

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| Other names: | 2-Cyclopentaneethanol Cyclopentaneethanol Cyclopentylethanol |
| Inchi: | InChI=1S/C7H14O/c8-6-5-7-3-1-2-4-7/h7-8H,1-6H2 |
| InchiKey: | JEXQWCBPEWHFKC-UHFFFAOYSA-N |
| Formula: | C7H14O |
| SMILES: | OCCC1CCCC1 |
| Mol. weight [g/mol]: | 114.19 |
| CAS: | 766-00-7 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -92.21 | kJ/mol | Joback Method |
| hf | -279.56 | kJ/mol | Joback Method |
| hfus | 11.91 | kJ/mol | Joback Method |
| hvap | 48.11 | kJ/mol | Joback Method |
| log10ws | -1.67 | | Crippen Method |
| logp | 1.559 | | Crippen Method |
| mcvol | 104.500 | ml/mol | McGowan Method |
| pc | 3819.82 | kPa | Joback Method |
| tb | 467.02 | K | Joback Method |
| tc | 652.78 | K | Joback Method |
| tf | 240.37 | K | Joback Method |
| vc | 0.388 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 231.14 | J/mol×K | 467.02 | Joback Method |
| cpg | 244.23 | J/mol×K | 497.98 | Joback Method |
| cpg | 256.67 | J/mol×K | 528.94 | Joback Method |
| cpg | 268.49 | J/mol×K | 559.90 | Joback Method |
| cpg | 279.72 | J/mol×K | 590.86 | Joback Method |
| cpg | 290.38 | J/mol×K | 621.82 | Joback Method |

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|-------|-----------|---------|--------|---------------|
| cpg | 300.48 | J/mol×K | 652.78 | Joback Method |
| dvisc | 0.0476779 | Paxs | 240.37 | Joback Method |
| dvisc | 0.0109728 | Paxs | 278.14 | Joback Method |
| dvisc | 0.0035883 | Paxs | 315.92 | Joback Method |
| dvisc | 0.0014899 | Paxs | 353.69 | Joback Method |
| dvisc | 0.0007330 | Paxs | 391.47 | Joback Method |
| dvisc | 0.0004086 | Paxs | 429.25 | Joback Method |
| dvisc | 0.0002503 | Paxs | 467.02 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C766007&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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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