

Limonen-4-ol

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|-----------------------------|---|
| Inchi: | InChI=1S/C10H16O/c1-8(2)10(11)6-4-9(3)5-7-10/h4,11H,1,5-7H2,2-3H3 |
| InchiKey: | OVKDFILSBMEKLT-UHFFFAOYSA-N |
| Formula: | C10H16O |
| SMILES: | <chem>C=C(C)C1(O)CC=C(C)CC1</chem> |
| Mol. weight [g/mol]: | 152.23 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 15.08 | kJ/mol | Joback Method |
| hf | -170.45 | kJ/mol | Joback Method |
| hfus | 9.52 | kJ/mol | Joback Method |
| hvap | 54.17 | kJ/mol | Joback Method |
| log10ws | -2.99 | | Crippen Method |
| logp | 2.424 | | Crippen Method |
| mcvol | 138.170 | ml/mol | McGowan Method |
| pc | 3199.16 | kPa | Joback Method |
| rinpol | 1181.00 | | NIST Webbook |
| rinpol | 1181.00 | | NIST Webbook |
| tb | 540.87 | K | Joback Method |
| tc | 744.48 | K | Joback Method |
| tf | 292.12 | K | Joback Method |
| vc | 0.513 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 330.19 | J/mol×K | 540.87 | Joback Method |
| cpg | 344.57 | J/mol×K | 574.81 | Joback Method |
| cpg | 358.09 | J/mol×K | 608.74 | Joback Method |
| cpg | 370.82 | J/mol×K | 642.68 | Joback Method |
| cpg | 382.89 | J/mol×K | 676.61 | Joback Method |
| cpg | 394.38 | J/mol×K | 710.55 | Joback Method |
| cpg | 405.39 | J/mol×K | 744.48 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R617619&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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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