

L-«alpha»-Terpineol

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|-----------------------------|--|
| Other names: | 3-Cyclohexene-1-methanol, «alpha», «alpha», 4-trimethyl-, (S)- p-Menth-1-en-8-ol, (S)-(-)- «alpha»-Terpineol, (-)- (-)-«alpha»-Terpineol 2-(4-Methyl-3-cyclohexen-1-yl)-2-propanol, (S)- 3-Cyclohexene-1-methanol, «alpha», «alpha», 4-trimethyl-, (1S)- Alpha terpineol «alpha»-Terpieol p-menth-1-en-8-ol «alpha»-terpineol |
| Inchi: | InChI=1S/C10H18O/c1-8-4-6-9(7-5-8)10(2,3)11/h4,9,11H,5-7H2,1-3H3/t9-/m0/s1 |
| InchiKey: | WUOACPNHFRMFPN-VIFPVBQESA-N |
| Formula: | C10H18O |
| SMILES: | CC1=CCC(C(C)(C)O)CC1 |
| Mol. weight [g/mol]: | 154.25 |
| CAS: | 10482-56-1 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------------|----------------------|----------------|
| gf | -55.88 | kJ/mol | Joback Method |
| hf | -310.08 | kJ/mol | Joback Method |
| hfus | 11.00 | kJ/mol | Joback Method |
| hvap | 54.62 | kJ/mol | Joback Method |
| log10ws | -2.89 | | Crippen Method |
| logp | 2.504 | | Crippen Method |
| mcvol | 142.470 | ml/mol | McGowan Method |
| pc | 2950.48 | kPa | Joback Method |
| rinpol | 1192.00 | | NIST Webbook |
| rinpol | 1172.00 | | NIST Webbook |
| rinpol | 1172.00 | | NIST Webbook |
| rinpol | 1187.00 | | NIST Webbook |
| ripol | 1690.00 | | NIST Webbook |
| ripol | 1690.00 | | NIST Webbook |
| tb | 540.84 | K | Joback Method |
| tc | 740.92 | K | Joback Method |
| tf | 308.00 ± 4.00 | K | NIST Webbook |
| vc | 0.522 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 436.42 | J/molxK | 740.92 | Joback Method |
| cpg | 424.66 | J/molxK | 707.57 | Joback Method |
| cpg | 412.12 | J/molxK | 674.23 | Joback Method |
| cpg | 398.78 | J/molxK | 640.88 | Joback Method |
| cpg | 384.60 | J/molxK | 607.53 | Joback Method |
| cpg | 369.52 | J/molxK | 574.19 | Joback Method |
| cpg | 353.52 | J/molxK | 540.84 | Joback Method |
| dvisc | 0.0209502 | Paxs | 286.36 | Joback Method |
| dvisc | 0.0001110 | Paxs | 540.84 | Joback Method |
| dvisc | 0.0001833 | Paxs | 498.43 | Joback Method |
| dvisc | 0.0003324 | Paxs | 456.01 | Joback Method |
| dvisc | 0.0006809 | Paxs | 413.60 | Joback Method |
| dvisc | 0.0016435 | Paxs | 371.19 | Joback Method |
| dvisc | 0.0049794 | Paxs | 328.77 | Joback Method |
| hsubt | 80.30 | kJ/mol | 305.50 | NIST Webbook |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C10482561&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 |

| | |
|-----------------|---|
| hsubt: | Enthalpy of sublimation at a given temperature |
| 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 |
| ripol: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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