

D-Neomenthyl-D-lactate

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|-----------------------------|---|
| Inchi: | InChI=1S/C13H24O3/c1-8(2)11-6-5-9(3)7-12(11)16-13(15)10(4)14/h8-12,14H,5-7H2,1-4H |
| InchiKey: | UJNOLBSYLSYIBM-VIVKNYSDSA-N |
| Formula: | C13H24O3 |
| SMILES: | CC1CCC(C(C)C)C(OC(=O)C(C)O)C1 |
| Mol. weight [g/mol]: | 228.33 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -308.01 | kJ/mol | Joback Method |
| hf | -705.60 | kJ/mol | Joback Method |
| hfus | 23.23 | kJ/mol | Joback Method |
| hvap | 69.40 | kJ/mol | Joback Method |
| log10ws | -2.78 | | Crippen Method |
| logp | 2.371 | | Crippen Method |
| mcvol | 196.480 | ml/mol | McGowan Method |
| pc | 2117.78 | kPa | Joback Method |
| rinpol | 1434.00 | | NIST Webbook |
| rinpol | 1434.00 | | NIST Webbook |
| ripol | 1955.00 | | NIST Webbook |
| tb | 674.64 | K | Joback Method |
| tc | 867.50 | K | Joback Method |
| tf | 338.15 | K | Joback Method |
| vc | 0.726 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 581.51 | J/molxK | 674.64 | Joback Method |
| cpg | 599.12 | J/molxK | 706.78 | Joback Method |
| cpg | 615.74 | J/molxK | 738.93 | Joback Method |
| cpg | 631.40 | J/molxK | 771.07 | Joback Method |
| cpg | 646.10 | J/molxK | 803.21 | Joback Method |
| cpg | 659.85 | J/molxK | 835.36 | Joback Method |
| cpg | 672.66 | J/molxK | 867.50 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0076841 | Paxs | 338.15 | Joback Method |
| dvisc | 0.0018956 | Paxs | 394.23 | Joback Method |
| dvisc | 0.0006627 | Paxs | 450.31 | Joback Method |
| dvisc | 0.0002924 | Paxs | 506.39 | Joback Method |
| dvisc | 0.0001519 | Paxs | 562.48 | Joback Method |
| dvisc | 0.0000888 | Paxs | 618.56 | Joback Method |
| dvisc | 0.0000568 | Paxs | 674.64 | 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=R422723&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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 |
| ripol: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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<https://www.chemeo.com/cid/70-206-5/D-Neomenthyl-D-lactate.pdf>

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