

p-menth-1-en-9-yl propanoate

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| Other names: | 1-p-Menthe-9-yl propanoate |
| Inchi: | InChI=1S/C13H22O2/c1-4-13(14)15-9-11(3)12-7-5-10(2)6-8-12/h5,11-12H,4,6-9H2,1-3H |
| InchiKey: | XWMAXJVDCTXUBT-UHFFFAOYSA-N |
| Formula: | C13H22O2 |
| SMILES: | CCC(=O)OCC(C)C1CC=C(C)CC1 |
| Mol. weight [g/mol]: | 210.31 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -133.00 | kJ/mol | Joback Method |
| hf | -461.10 | kJ/mol | Joback Method |
| hfus | 21.36 | kJ/mol | Joback Method |
| hvap | 54.68 | kJ/mol | Joback Method |
| log10ws | -3.39 | | Crippen Method |
| logp | 3.322 | | Crippen Method |
| mcvol | 186.310 | ml/mol | McGowan Method |
| pc | 2092.66 | kPa | Joback Method |
| rinpol | 1499.00 | | NIST Webbook |
| rinpol | 1499.00 | | NIST Webbook |
| ripol | 1883.00 | | NIST Webbook |
| ripol | 1883.00 | | NIST Webbook |
| tb | 596.38 | K | Joback Method |
| tc | 799.67 | K | Joback Method |
| tf | 314.09 | K | Joback Method |
| vc | 0.701 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 486.54 | J/molxK | 596.38 | Joback Method |
| cpg | 570.41 | J/molxK | 765.79 | Joback Method |
| cpg | 555.55 | J/molxK | 731.91 | Joback Method |
| cpg | 539.74 | J/molxK | 698.02 | Joback Method |
| cpg | 522.98 | J/molxK | 664.14 | Joback Method |

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|-------|-----------|---------|--------|---------------|
| cpg | 505.26 | J/molxK | 630.26 | Joback Method |
| cpg | 584.36 | J/molxK | 799.67 | Joback Method |
| dvisc | 0.0001709 | Paxs | 596.38 | Joback Method |
| dvisc | 0.0002251 | Paxs | 549.33 | Joback Method |
| dvisc | 0.0003121 | Paxs | 502.28 | Joback Method |
| dvisc | 0.0004631 | Paxs | 455.24 | Joback Method |
| dvisc | 0.0007527 | Paxs | 408.19 | Joback Method |
| dvisc | 0.0013882 | Paxs | 361.14 | Joback Method |
| dvisc | 0.0030756 | Paxs | 314.09 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R320513&Units=SI |

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 |
| mccvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| ripol: | 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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