# Dihydrocuminic alcohol, acetate

**Inchi:** InChI=1S/C12H18O2/c1-9(2)12-6-4-11(5-7-12)8-14-10(3)13/h4,7,9H,5-6,8H2,1-3H3
**InchiKey:** CHRLYELMWCUEBI-UHFFFAOYSA-N
**Formula:** C12H18O2
**SMILES:** CC(=O)OCC1=CCC(C(C)C)=CC1
**Mol. weight [g/mol]:** 194.27

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -113.38 | kJ/mol | Joback Method |
| hf | -373.81 | kJ/mol | Joback Method |
| hfus | 18.53 | kJ/mol | Joback Method |
| hvap | 53.72 | kJ/mol | Joback Method |
| log10ws | -3.07 | | Crippen Method |
| logp | 2.852 | | Crippen Method |
| mcvol | 167.920 | ml/mol | McGowan Method |
| pc | 2412.37 | kPa | Joback Method |
| rinpol | 1418.00 | | NIST Webbook |
| tb | 582.31 | K | Joback Method |
| tc | 791.69 | K | Joback Method |
| tf | 320.34 | K | Joback Method |
| vc | 0.631 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 414.22 | J/mol×K | 582.31 | Joback Method |
| cpg | 430.61 | J/mol×K | 617.21 | Joback Method |
| cpg | 446.13 | J/mol×K | 652.10 | Joback Method |
| cpg | 460.78 | J/mol×K | 687.00 | Joback Method |
| cpg | 474.59 | J/mol×K | 721.90 | Joback Method |
| cpg | 487.56 | J/mol×K | 756.80 | Joback Method |
| cpg | 499.71 | J/mol×K | 791.69 | Joback Method |
| dvisc | 0.0024629 | Pa×s | 320.34 | Joback Method |
| dvisc | 0.0011981 | Pa×s | 364.00 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0006801 | Pa×s | 407.66 | Joback Method |
| dvisc | 0.0004308 | Pa×s | 451.32 | Joback Method |
| dvisc | 0.0002958 | Pa×s | 494.99 | Joback Method |
| dvisc | 0.0002158 | Pa×s | 538.65 | Joback Method |
| dvisc | 0.0001651 | Pa×s | 582.31 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R129949&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |

# Legend

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|---|---|
| **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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |