# cis-5-Hydroxy-p-menth-1(6)-en-2-one

**Inchi:** InChI=1S/C10H16O2/c1-6(2)8-5-9(11)7(3)4-10(8)12/h4,6,8,10,12H,5H2,1-3H3/t8-,10-/m0
**InchiKey:** ZFUJCNJIGDBFEP-WPRPVWTQSA-N
**Formula:** C10H16O2
**SMILES:** CC1=CC(O)C(C(C)C)CC1=O
**Mol. weight [g/mol]:** 168.23

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -191.46 | kJ/mol | Joback Method |
| hf | -464.65 | kJ/mol | Joback Method |
| hfus | 15.47 | kJ/mol | Joback Method |
| hvap | 59.47 | kJ/mol | Joback Method |
| log10ws | -1.93 | | Crippen Method |
| logp | 1.539 | | Crippen Method |
| mcvol | 144.040 | ml/mol | McGowan Method |
| pc | 2921.84 | kPa | Joback Method |
| rinpol | 1385.00 | | NIST Webbook |
| rinpol | 1385.00 | | NIST Webbook |
| tb | 606.78 | K | Joback Method |
| tc | 812.40 | K | Joback Method |
| tf | 332.92 | K | Joback Method |
| vc | 0.533 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 383.06 | J/mol×K | 606.78 | Joback Method |
| cpg | 398.33 | J/mol×K | 641.05 | Joback Method |
| cpg | 412.83 | J/mol×K | 675.32 | Joback Method |
| cpg | 426.57 | J/mol×K | 709.59 | Joback Method |
| cpg | 439.53 | J/mol×K | 743.86 | Joback Method |
| cpg | 451.71 | J/mol×K | 778.13 | Joback Method |
| cpg | 463.09 | J/mol×K | 812.40 | Joback Method |

# Sources

| | |
|---|---|
| **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 |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R233895&Units=SI |

# Legend

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|---|---|
| **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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |