# 8-hydroxy-p-menthan-3-one

**Inchi:** InChI=1S/C10H18O2/c1-7-4-5-8(9(11)6-7)10(2,3)12/h7-8,12H,4-6H2,1-3H3
**InchiKey:** QNZZGEDTDYWNFN-UHFFFAOYSA-N
**Formula:** C10H18O2
**SMILES:** CC1CCC(C(C)(C)O)C(=O)C1
**Mol. weight [g/mol]:** 170.25

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -206.51 | kJ/mol | Joback Method |
| hf | -514.43 | kJ/mol | Joback Method |
| hfus | 10.75 | kJ/mol | Joback Method |
| hvap | 57.60 | kJ/mol | Joback Method |
| log10ws | -2.08 | | Crippen Method |
| logp | 1.763 | | Crippen Method |
| mcvol | 148.340 | ml/mol | McGowan Method |
| pc | 2890.51 | kPa | Joback Method |
| rinpol | 1231.00 | | NIST Webbook |
| rinpol | 1231.00 | | NIST Webbook |
| tb | 599.85 | K | Joback Method |
| tc | 810.28 | K | Joback Method |
| tf | 337.06 | K | Joback Method |
| vc | 0.542 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 406.95 | J/mol×K | 599.85 | Joback Method |
| cpg | 423.95 | J/mol×K | 634.92 | Joback Method |
| cpg | 439.99 | J/mol×K | 669.99 | Joback Method |
| cpg | 455.07 | J/mol×K | 705.07 | Joback Method |
| cpg | 469.22 | J/mol×K | 740.14 | Joback Method |
| cpg | 482.44 | J/mol×K | 775.21 | Joback Method |
| cpg | 494.75 | J/mol×K | 810.28 | Joback Method |

# Sources

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|---|---|
| **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=R224316&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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 |