# 1,2,3,4,5,6,7,8-Octahydro-«alpha»,«alpha»,3,8-tetr

**Inchi:** InChI=1S/C15H26O/c1-10-5-7-12(15(3,4)16)9-14-11(2)6-8-13(10)14/h10-12,16H,5-9H2,1
**InchiKey:** TWVJWDMOZJXUID-UHFFFAOYSA-N
**Formula:** C15H26O
**SMILES:** CC1CCC(C(C)(C)O)CC2=C1CCC2C
**Mol. weight [g/mol]:** 222.37

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 17.53 | kJ/mol | Joback Method |
| hf | -378.45 | kJ/mol | Joback Method |
| hfus | 20.67 | kJ/mol | Joback Method |
| hvap | 66.19 | kJ/mol | Joback Method |
| log10ws | -4.39 | | Crippen Method |
| logp | 3.920 | | Crippen Method |
| mcvol | 202.060 | ml/mol | McGowan Method |
| pc | 2040.07 | kPa | Joback Method |
| rinpol | 1576.00 | | NIST Webbook |
| rinpol | 1576.00 | | NIST Webbook |
| tb | 666.56 | K | Joback Method |
| tc | 872.62 | K | Joback Method |
| tf | 365.41 | K | Joback Method |
| vc | 0.750 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 601.73 | J/mol×K | 666.56 | Joback Method |
| cpg | 689.07 | J/mol×K | 838.28 | Joback Method |
| cpg | 673.77 | J/mol×K | 803.93 | Joback Method |
| cpg | 657.45 | J/mol×K | 769.59 | Joback Method |
| cpg | 640.04 | J/mol×K | 735.25 | Joback Method |
| cpg | 621.49 | J/mol×K | 700.90 | Joback Method |
| cpg | 703.40 | J/mol×K | 872.62 | Joback Method |
| dvisc | 0.0000963 | Pa×s | 666.56 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0001400 | Pa×s | 616.37 | Joback Method |
| dvisc | 0.0002173 | Pa×s | 566.18 | Joback Method |
| dvisc | 0.0003676 | Pa×s | 515.99 | Joback Method |
| dvisc | 0.0006963 | Pa×s | 465.79 | Joback Method |
| dvisc | 0.0015389 | Pa×s | 415.60 | Joback Method |
| dvisc | 0.0042291 | Pa×s | 365.41 | 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=R613375&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 |
| **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 |