# 1,2-Dehydrosesquicineole

**Inchi:** InChI=1S/C15H24O/c1-12(2)6-5-9-15(4)13-7-10-14(3,16-15)11-8-13/h6-7H,5,8-11H2,1-4
**InchiKey:** GWHXPRLXLILZQF-GICMACPYSA-N
**Formula:** C15H24O
**SMILES:** CC(C)=CCCC1(C)OC2(C)CC=C1CC2
**Mol. weight [g/mol]:** 220.35

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 167.62 | kJ/mol | Joback Method |
| hf | -167.43 | kJ/mol | Joback Method |
| hfus | 21.78 | kJ/mol | Joback Method |
| hvap | 52.35 | kJ/mol | Joback Method |
| log10ws | -4.91 | | Crippen Method |
| logp | 4.391 | | Crippen Method |
| mcvol | 197.760 | ml/mol | McGowan Method |
| pc | 2086.93 | kPa | Joback Method |
| rinpol | 1460.00 | | NIST Webbook |
| ripol | 1738.00 | | NIST Webbook |
| ripol | 1738.00 | | NIST Webbook |
| tb | 600.23 | K | Joback Method |
| tc | 821.16 | K | Joback Method |
| tf | 356.26 | K | Joback Method |
| vc | 0.757 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 530.26 | J/mol×K | 600.23 | Joback Method |
| cpg | 550.02 | J/mol×K | 637.05 | Joback Method |
| cpg | 568.60 | J/mol×K | 673.87 | Joback Method |
| cpg | 586.27 | J/mol×K | 710.69 | Joback Method |
| cpg | 603.31 | J/mol×K | 747.51 | Joback Method |
| cpg | 620.01 | J/mol×K | 784.34 | Joback Method |
| cpg | 636.62 | J/mol×K | 821.16 | 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=R232392&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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |