# 14-Hydroxy-«alpha»-muurolene

**Other names:** «alpha»-Muurolene-14-ol
«alpha»-Muurolene-14-hydroxy
**Inchi:** InChI=1S/C15H24O/c1-10(2)13-6-4-11(3)14-7-5-12(9-16)8-15(13)14/h4,8,10,13-16H,5-7
**InchiKey:** DFIKBBWSGFHYMP-UHFFFAOYSA-N
**Formula:** C15H24O
**SMILES:** CC1=CC2C(CC1)C(C)=CCC2C(C)CO
**Mol. weight [g/mol]:** 220.35
**CAS:** 135118-51-3

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 42.21 | kJ/mol | Joback Method |
| hf | -317.20 | kJ/mol | Joback Method |
| hfus | 25.78 | kJ/mol | Joback Method |
| hvap | 67.39 | kJ/mol | Joback Method |
| log10ws | -3.89 | | Crippen Method |
| logp | 3.554 | | Crippen Method |
| mcvol | 197.760 | ml/mol | McGowan Method |
| pc | 2086.93 | kPa | Joback Method |
| rinpol | 1780.00 | | NIST Webbook |
| rinpol | 1757.00 | | NIST Webbook |
| rinpol | 1775.00 | | NIST Webbook |
| rinpol | 1777.00 | | NIST Webbook |
| rinpol | 1775.00 | | NIST Webbook |
| rinpol | 1780.00 | | NIST Webbook |
| rinpol | 1782.20 | | NIST Webbook |
| rinpol | 1775.00 | | NIST Webbook |
| rinpol | 1756.00 | | NIST Webbook |
| rinpol | 1777.00 | | NIST Webbook |
| rinpol | 1775.00 | | NIST Webbook |
| rinpol | 1770.00 | | NIST Webbook |
| rinpol | 1782.20 | | NIST Webbook |
| rinpol | 1780.00 | | NIST Webbook |
| rinpol | 1770.00 | | NIST Webbook |
| rinpol | 1775.00 | | NIST Webbook |
| rinpol | 1775.00 | | NIST Webbook |
| rinpol | 1781.00 | | NIST Webbook |

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|---|---|---|---|
| rinpol | 1775.00 | | NIST Webbook |
| rinpol | 1778.00 | | NIST Webbook |
| rinpol | 1776.00 | | NIST Webbook |
| rinpol | 1780.00 | | NIST Webbook |
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| rinpol | 1780.00 | | NIST Webbook |
| rinpol | 1772.00 | | NIST Webbook |
| rinpol | 1783.00 | | NIST Webbook |
| rinpol | 1780.00 | | NIST Webbook |
| ripol | 2599.00 | | NIST Webbook |
| ripol | 2567.00 | | NIST Webbook |
| ripol | 2599.00 | | NIST Webbook |
| ripol | 2599.00 | | NIST Webbook |
| tb | 668.51 | K | Joback Method |
| tc | 869.60 | K | Joback Method |
| tf | 348.75 | K | Joback Method |
| vc | 0.742 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 576.51 | J/mol×K | 668.51 | Joback Method |
| cpg | 594.95 | J/mol×K | 702.02 | Joback Method |
| cpg | 612.33 | J/mol×K | 735.54 | Joback Method |
| cpg | 628.69 | J/mol×K | 769.05 | Joback Method |
| cpg | 644.06 | J/mol×K | 802.57 | Joback Method |
| cpg | 658.50 | J/mol×K | 836.08 | Joback Method |
| cpg | 672.04 | J/mol×K | 869.60 | Joback Method |
| dvisc | 0.0048013 | Pa×s | 348.75 | Joback Method |
| dvisc | 0.0016816 | Pa×s | 402.04 | Joback Method |
| dvisc | 0.0007529 | Pa×s | 455.34 | Joback Method |
| dvisc | 0.0003989 | Pa×s | 508.63 | Joback Method |
| dvisc | 0.0002384 | Pa×s | 561.92 | Joback Method |
| dvisc | 0.0001558 | Pa×s | 615.22 | Joback Method |
| dvisc | 0.0001089 | Pa×s | 668.51 | Joback Method |

# Sources

| | |
|---|---|
| **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=C135118513&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

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