# Aromadendrenepoxide

**Other names:** Aromadendrene epoxide
Aromadendrene oxide
**Inchi:** InChI=1S/C15H24O/c1-9-4-5-10-12(9)13-11(14(13,2)3)6-7-15(10)8-16-15/h9-13H,4-8H2
**InchiKey:** XPGWKKLDFXNBPJ-UHFFFAOYSA-N
**Formula:** C15H24O
**SMILES:** CC1CCC2C1C1C(CCC23CO3)C1(C)C
**Mol. weight [g/mol]:** 220.35

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 186.09 | kJ/mol | Joback Method |
| hf | -230.43 | kJ/mol | Joback Method |
| hfus | 23.64 | kJ/mol | Joback Method |
| hvap | 50.09 | kJ/mol | Joback Method |
| log10ws | -3.43 | | Crippen Method |
| logp | 3.484 | | Crippen Method |
| mcvol | 184.640 | ml/mol | McGowan Method |
| pc | 2202.08 | kPa | Joback Method |
| rinpol | 1613.00 | | NIST Webbook |
| rinpol | 1613.00 | | NIST Webbook |
| tb | 587.25 | K | Joback Method |
| tc | 815.53 | K | Joback Method |
| tf | 388.70 | K | Joback Method |
| vc | 0.710 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 544.52 | J/mol×K | 587.25 | Joback Method |
| cpg | 568.21 | J/mol×K | 625.30 | Joback Method |
| cpg | 590.27 | J/mol×K | 663.34 | Joback Method |
| cpg | 611.03 | J/mol×K | 701.39 | Joback Method |
| cpg | 630.84 | J/mol×K | 739.44 | Joback Method |
| cpg | 650.04 | J/mol×K | 777.48 | Joback Method |

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|---|---|---|---|---|
| cpg | 668.97 | J/mol×K | 815.53 | Joback Method |

# Sources

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|---|---|
| **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=R54894&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 |