# Longipinene epoxide

**Inchi:** InChI=1S/C15H24O/c1-13(2)6-5-7-14(3)9-8-10-15(4,16-10)12(14)11(9)13/h9-12H,5-8H2
**InchiKey:** YIUOYFADMDRLEE-UHFFFAOYSA-N
**Formula:** C15H24O
**SMILES:** CC1(C)CCCC2(C)C3CC4OC4(C)C2C31
**Mol. weight [g/mol]:** 220.35
**CAS:** 142792-93-6

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 192.70 | kJ/mol | Joback Method |
| hf | -209.03 | kJ/mol | Joback Method |
| hfus | 19.44 | kJ/mol | Joback Method |
| hvap | 48.77 | kJ/mol | Joback Method |
| log10ws | -3.78 | | Crippen Method |
| logp | 3.626 | | Crippen Method |
| mcvol | 184.640 | ml/mol | McGowan Method |
| pc | 2244.00 | kPa | Joback Method |
| tb | 583.22 | K | Joback Method |
| tc | 812.69 | K | Joback Method |
| tf | 416.12 | K | Joback Method |
| vc | 0.716 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 540.98 | J/mol×K | 583.22 | Joback Method |
| cpg | 563.50 | J/mol×K | 621.46 | Joback Method |
| cpg | 584.43 | J/mol×K | 659.71 | Joback Method |
| cpg | 604.21 | J/mol×K | 697.95 | Joback Method |
| cpg | 623.32 | J/mol×K | 736.20 | Joback Method |
| cpg | 642.20 | J/mol×K | 774.44 | Joback Method |
| cpg | 661.33 | J/mol×K | 812.69 | 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=C142792936&Units=SI |

# Legend

| | |
|---|---|
| **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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

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