# Guaia-1(10),11-dien-15,2-olide

**Inchi:** InChI=1S/C15H20O2/c1-8-4-5-11-6-13-10(3)14(7-12(8)13)17-15(16)9(11)2/h9,11-12,14H
**InchiKey:** WNLWOLXUWFZXOF-UHFFFAOYSA-N
**Formula:** C15H20O2
**SMILES:** C=C1CCC2CC3=C(C)C(CC13)OC(=O)C2C
**Mol. weight [g/mol]:** 232.32

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 56.63 | kJ/mol | Joback Method |
| hf | -330.13 | kJ/mol | Joback Method |
| hfus | 28.46 | kJ/mol | Joback Method |
| hvap | 59.63 | kJ/mol | Joback Method |
| log10ws | -3.74 | | Crippen Method |
| logp | 3.241 | | Crippen Method |
| mcvol | 188.470 | ml/mol | McGowan Method |
| pc | 2163.33 | kPa | Joback Method |
| rinpol | 2019.00 | | NIST Webbook |
| rinpol | 2019.00 | | NIST Webbook |
| tb | 678.28 | K | Joback Method |
| tc | 913.85 | K | Joback Method |
| tf | 428.58 | K | Joback Method |
| vc | 0.712 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 562.96 | J/mol×K | 678.28 | Joback Method |
| cpg | 583.85 | J/mol×K | 717.54 | Joback Method |
| cpg | 603.34 | J/mol×K | 756.80 | Joback Method |
| cpg | 621.47 | J/mol×K | 796.06 | Joback Method |
| cpg | 638.29 | J/mol×K | 835.33 | Joback Method |
| cpg | 653.85 | J/mol×K | 874.59 | Joback Method |
| cpg | 668.18 | J/mol×K | 913.85 | 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=R73175&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 |