# trans-Pinocarvyl formate

**Inchi:** InChI=1S/C11H16O2/c1-7-9-4-8(11(9,2)3)5-10(7)13-6-12/h6,8-10H,1,4-5H2,2-3H3
**InchiKey:** WMHHHHLDOCHBEV-UHFFFAOYSA-N
**Formula:** C11H16O2
**SMILES:** C=C1C(OC=O)CC2CC1C2(C)C
**Mol. weight [g/mol]:** 180.24

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -21.21 | kJ/mol | Joback Method |
| hf | -289.93 | kJ/mol | Joback Method |
| hfus | 16.58 | kJ/mol | Joback Method |
| hvap | 47.60 | kJ/mol | Joback Method |
| log10ws | -2.32 | | Crippen Method |
| logp | 2.150 | | Crippen Method |
| mcvol | 147.270 | ml/mol | McGowan Method |
| pc | 2673.54 | kPa | Joback Method |
| rinpol | 1212.00 | | NIST Webbook |
| rinpol | 1249.00 | | NIST Webbook |
| rinpol | 1249.00 | | NIST Webbook |
| rinpol | 1212.00 | | NIST Webbook |
| tb | 529.97 | K | Joback Method |
| tc | 737.39 | K | Joback Method |
| tf | 339.42 | K | Joback Method |
| vc | 0.573 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 371.07 | J/mol×K | 529.97 | Joback Method |
| cpg | 387.70 | J/mol×K | 564.54 | Joback Method |
| cpg | 403.32 | J/mol×K | 599.11 | Joback Method |
| cpg | 418.02 | J/mol×K | 633.68 | Joback Method |
| cpg | 431.92 | J/mol×K | 668.25 | Joback Method |
| cpg | 445.12 | J/mol×K | 702.82 | Joback Method |

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|---|---|---|---|---|
| cpg | 457.75 | J/mol×K | 737.39 | 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=R233246&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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |