# «alpha»-Campholenyl formate

**Inchi:** InChI=1S/C11H18O2/c1-9-4-5-10(11(9,2)3)6-7-13-8-12/h4,8,10H,5-7H2,1-3H3
**InchiKey:** ARNTYULBVFUPJD-UHFFFAOYSA-N
**Formula:** C11H18O2
**SMILES:** CC1=CCC(CCOC=O)C1(C)C
**Mol. weight [g/mol]:** 182.26

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -119.10 | kJ/mol | Joback Method |
| hf | -386.48 | kJ/mol | Joback Method |
| hfus | 17.26 | kJ/mol | Joback Method |
| hvap | 48.96 | kJ/mol | Joback Method |
| log10ws | -2.55 | | Crippen Method |
| logp | 2.542 | | Crippen Method |
| mcvol | 158.130 | ml/mol | McGowan Method |
| pc | 2490.03 | kPa | Joback Method |
| rinpol | 1238.00 | | NIST Webbook |
| rinpol | 1238.00 | | NIST Webbook |
| tb | 537.15 | K | Joback Method |
| tc | 738.33 | K | Joback Method |
| tf | 321.80 | K | Joback Method |
| vc | 0.611 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 385.63 | J/mol×K | 537.15 | Joback Method |
| cpg | 401.66 | J/mol×K | 570.68 | Joback Method |
| cpg | 416.83 | J/mol×K | 604.21 | Joback Method |
| cpg | 431.23 | J/mol×K | 637.74 | Joback Method |
| cpg | 444.94 | J/mol×K | 671.27 | Joback Method |
| cpg | 458.03 | J/mol×K | 704.80 | Joback Method |
| cpg | 470.58 | J/mol×K | 738.33 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R232887&Units=SI |
| **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 |

# 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 |