# «alpha»-Campholenyl acetate

**Inchi:** InChI=1S/C12H20O2/c1-9-5-6-11(12(9,3)4)7-8-14-10(2)13/h5,11H,6-8H2,1-4H3
**InchiKey:** HBRWKAJTMKFEQR-UHFFFAOYSA-N
**Formula:** C12H20O2
**SMILES:** CC(=O)OCCC1CC=C(C)C1(C)C
**Mol. weight [g/mol]:** 196.29

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -140.08 | kJ/mol | Joback Method |
| hf | -434.12 | kJ/mol | Joback Method |
| hfus | 19.16 | kJ/mol | Joback Method |
| hvap | 51.21 | kJ/mol | Joback Method |
| log10ws | -2.97 | | Crippen Method |
| logp | 2.932 | | Crippen Method |
| mcvol | 172.220 | ml/mol | McGowan Method |
| pc | 2244.00 | kPa | Joback Method |
| rinpol | 1316.00 | | NIST Webbook |
| rinpol | 1313.00 | | NIST Webbook |
| rinpol | 1316.00 | | NIST Webbook |
| rinpol | 1317.00 | | NIST Webbook |
| ripol | 1681.00 | | NIST Webbook |
| ripol | 1681.00 | | NIST Webbook |
| tb | 565.24 | K | Joback Method |
| tc | 768.19 | K | Joback Method |
| tf | 341.00 | K | Joback Method |
| vc | 0.655 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 433.72 | J/mol×K | 565.24 | Joback Method |
| cpg | 450.77 | J/mol×K | 599.06 | Joback Method |
| cpg | 466.95 | J/mol×K | 632.89 | Joback Method |
| cpg | 482.34 | J/mol×K | 666.71 | Joback Method |

| | | | | |
|---|---|---|---|---|
| cpg | 497.01 | J/mol×K | 700.54 | Joback Method |
| cpg | 511.05 | J/mol×K | 734.36 | Joback Method |
| cpg | 524.55 | J/mol×K | 768.19 | Joback Method |

# Sources

| | |
|---|---|
| **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=R204629&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |
| **rinpol:** | Non-polar retention indices |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |