# trans-Sabinene hydrate acetate

**Inchi:** InChI=1S/C12H20O2/c1-8(2)12-6-5-11(4,10(12)7-12)14-9(3)13/h8,10H,5-7H2,1-4H3/t10
**InchiKey:** MYCFGFMJUUNKBN-RAMGSTBQSA-N
**Formula:** C12H20O2
**SMILES:** CC(=O)OC1(C)CCC2(C(C)C)CC12
**Mol. weight [g/mol]:** 196.29

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -83.39 | kJ/mol | Joback Method |
| hf | -385.35 | kJ/mol | Joback Method |
| hfus | 10.84 | kJ/mol | Joback Method |
| hvap | 48.29 | kJ/mol | Joback Method |
| log10ws | -2.88 | | Crippen Method |
| logp | 2.764 | | Crippen Method |
| mcvol | 165.660 | ml/mol | McGowan Method |
| pc | 2502.50 | kPa | Joback Method |
| rinpol | 1216.00 | | NIST Webbook |
| rinpol | 1258.00 | | NIST Webbook |
| rinpol | 1254.00 | | NIST Webbook |
| rinpol | 1286.00 | | NIST Webbook |
| tb | 559.10 | K | Joback Method |
| tc | 772.02 | K | Joback Method |
| tf | 361.60 | K | Joback Method |
| vc | 0.634 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 436.10 | J/mol×K | 559.10 | Joback Method |
| cpg | 453.75 | J/mol×K | 594.59 | Joback Method |
| cpg | 470.23 | J/mol×K | 630.07 | Joback Method |
| cpg | 485.75 | J/mol×K | 665.56 | Joback Method |
| cpg | 500.56 | J/mol×K | 701.04 | Joback Method |
| cpg | 514.85 | J/mol×K | 736.53 | Joback Method |

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|---|---|---|---|---|
| cpg | 528.87 | J/mol×K | 772.02 | Joback Method |

# Sources

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|---|---|
| **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=R607528&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 |