# 1,8(10)-p-Menthadien-9-yl 3-methylbutanoate

**Inchi:** InChI=1S/C15H24O2/c1-11(2)9-15(16)17-10-13(4)14-7-5-12(3)6-8-14/h5,11,14H,4,6-10H
**InchiKey:** YKJANZVKQMMPTB-UHFFFAOYSA-N
**Formula:** C15H24O2
**SMILES:** C=C(COC(=O)CC(C)C)C1CC=C(C)CC1
**Mol. weight [g/mol]:** 236.35

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -36.87 | kJ/mol | Joback Method |
| hf | -386.74 | kJ/mol | Joback Method |
| hfus | 23.95 | kJ/mol | Joback Method |
| hvap | 58.54 | kJ/mol | Joback Method |
| log10ws | -4.08 | | Crippen Method |
| logp | 3.878 | | Crippen Method |
| mcvol | 210.190 | ml/mol | McGowan Method |
| pc | 1840.41 | kPa | Joback Method |
| rinpol | 1625.00 | | NIST Webbook |
| tb | 638.70 | K | Joback Method |
| tc | 843.15 | K | Joback Method |
| tf | 320.91 | K | Joback Method |
| vc | 0.794 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 570.32 | J/mol×K | 638.70 | Joback Method |
| cpg | 589.59 | J/mol×K | 672.78 | Joback Method |
| cpg | 607.78 | J/mol×K | 706.85 | Joback Method |
| cpg | 624.91 | J/mol×K | 740.93 | Joback Method |
| cpg | 641.00 | J/mol×K | 775.00 | Joback Method |
| cpg | 656.08 | J/mol×K | 809.08 | Joback Method |
| cpg | 670.19 | J/mol×K | 843.15 | 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=R589336&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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |