# p-menth-1-en-9-yl acetate

**Other names:** p-mentha-1-en-9-yl acetate
p-Ment-1-en-9-ol acetate
p-Menth-1-en-9-ol, acetate
**Inchi:** InChI=1S/C12H20O2/c1-9-4-6-12(7-5-9)10(2)8-14-11(3)13/h4,10,12H,5-8H2,1-3H3
**InchiKey:** QUHIXSUMNSRNNP-UHFFFAOYSA-N
**Formula:** C12H20O2
**SMILES:** CC(=O)OCC(C)C1CC=C(C)CC1
**Mol. weight [g/mol]:** 196.29

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -141.42 | kJ/mol | Joback Method |
| hf | -440.46 | kJ/mol | Joback Method |
| hfus | 18.77 | kJ/mol | Joback Method |
| hvap | 52.46 | kJ/mol | Joback Method |
| log10ws | -2.97 | | Crippen Method |
| logp | 2.932 | | Crippen Method |
| mcvol | 172.220 | ml/mol | McGowan Method |
| pc | 2289.32 | kPa | Joback Method |
| rinpol | 1410.00 | | NIST Webbook |
| rinpol | 1424.00 | | NIST Webbook |
| rinpol | 1410.00 | | NIST Webbook |
| rinpol | 1410.00 | | NIST Webbook |
| ripol | 1791.00 | | NIST Webbook |
| ripol | 1834.00 | | NIST Webbook |
| ripol | 1828.00 | | NIST Webbook |
| ripol | 1832.00 | | NIST Webbook |
| ripol | 1824.00 | | NIST Webbook |
| ripol | 1818.00 | | NIST Webbook |
| ripol | 1834.00 | | NIST Webbook |
| ripol | 1818.00 | | NIST Webbook |
| tb | 573.50 | K | Joback Method |
| tc | 779.90 | K | Joback Method |
| tf | 302.82 | K | Joback Method |
| vc | 0.644 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 435.41 | J/mol×K | 573.50 | Joback Method |
| cpg | 453.60 | J/mol×K | 607.90 | Joback Method |
| cpg | 470.85 | J/mol×K | 642.30 | Joback Method |
| cpg | 487.15 | J/mol×K | 676.70 | Joback Method |
| cpg | 502.54 | J/mol×K | 711.10 | Joback Method |
| cpg | 517.01 | J/mol×K | 745.50 | Joback Method |
| cpg | 530.59 | J/mol×K | 779.90 | Joback Method |
| dvisc | 0.0032213 | Pa×s | 302.82 | Joback Method |
| dvisc | 0.0014754 | Pa×s | 347.93 | Joback Method |
| dvisc | 0.0008084 | Pa×s | 393.05 | Joback Method |
| dvisc | 0.0005014 | Pa×s | 438.16 | Joback Method |
| dvisc | 0.0003399 | Pa×s | 483.27 | Joback Method |
| dvisc | 0.0002463 | Pa×s | 528.39 | Joback Method |
| dvisc | 0.0001877 | Pa×s | 573.50 | Joback Method |

# Sources

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=R130142&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

**cpg:** Ideal gas heat capacity
**dvisc:** Dynamic viscosity
**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 |