# p-Mentha-1(7),5-dien-2-ol

**Inchi:** InChI=1S/C10H16O/c1-7(2)9-5-4-8(3)10(11)6-9/h5,7,10-11H,3-4,6H2,1-2H3/t10-/m0/s1
**InchiKey:** DEBINAVASDQMMF-JTQLQIEISA-N
**Formula:** C10H16O
**SMILES:** C=C1CC=C(C(C)C)CC1O
**Mol. weight [g/mol]:** 152.23

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -8.08 | kJ/mol | Joback Method |
| hf | -222.37 | kJ/mol | Joback Method |
| hfus | 13.73 | kJ/mol | Joback Method |
| hvap | 55.69 | kJ/mol | Joback Method |
| log10ws | -2.74 | | Crippen Method |
| logp | 2.280 | | Crippen Method |
| mcvol | 138.170 | ml/mol | McGowan Method |
| pc | 2976.29 | kPa | Joback Method |
| rinpol | 1183.00 | | NIST Webbook |
| rinpol | 1183.00 | | NIST Webbook |
| ripol | 1823.00 | | NIST Webbook |
| ripol | 1823.00 | | NIST Webbook |
| ripol | 1823.00 | | NIST Webbook |
| ripol | 1823.00 | | NIST Webbook |
| ripol | 1823.00 | | NIST Webbook |
| ripol | 1823.00 | | NIST Webbook |
| ripol | 1823.00 | | NIST Webbook |
| ripol | 1823.00 | | NIST Webbook |
| ripol | 1823.00 | | NIST Webbook |
| tb | 542.79 | K | Joback Method |
| tc | 737.05 | K | Joback Method |
| tf | 282.62 | K | Joback Method |
| vc | 0.511 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 331.36 | J/mol×K | 542.79 | Joback Method |
| cpg | 395.46 | J/mol×K | 704.67 | Joback Method |
| cpg | 383.96 | J/mol×K | 672.30 | Joback Method |
| cpg | 371.82 | J/mol×K | 639.92 | Joback Method |
| cpg | 359.01 | J/mol×K | 607.54 | Joback Method |
| cpg | 345.53 | J/mol×K | 575.17 | Joback Method |
| cpg | 406.33 | J/mol×K | 737.05 | Joback Method |
| dvisc | 0.0001204 | Pa×s | 542.79 | Joback Method |
| dvisc | 0.0001894 | Pa×s | 499.43 | Joback Method |
| dvisc | 0.0003249 | Pa×s | 456.07 | Joback Method |
| dvisc | 0.0006242 | Pa×s | 412.70 | Joback Method |
| dvisc | 0.0013980 | Pa×s | 369.34 | Joback Method |
| dvisc | 0.0038798 | Pa×s | 325.98 | Joback Method |
| dvisc | 0.0147285 | Pa×s | 282.62 | Joback Method |

# Sources

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=R234209&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 |