# (-)-2,6,6-Trimethyl-2-vinyl-4-hydroxy-tetrahydropyran

**Inchi:** InChI=1S/C10H18O2/c1-5-10(4)7-8(11)6-9(2,3)12-10/h5,8,11H,1,6-7H2,2-4H3
**InchiKey:** MVQXHVZPFYXDPH-UHFFFAOYSA-N
**Formula:** C10H18O2
**SMILES:** C=CC1(C)CC(O)CC(C)(C)O1
**Mol. weight [g/mol]:** 170.25

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -103.73 | kJ/mol | Joback Method |
| hf | -364.41 | kJ/mol | Joback Method |
| hfus | 13.82 | kJ/mol | Joback Method |
| hvap | 55.88 | kJ/mol | Joback Method |
| log10ws | -2.44 | | Crippen Method |
| logp | 1.881 | | Crippen Method |
| mcvol | 148.340 | ml/mol | McGowan Method |
| pc | 3005.73 | kPa | Joback Method |
| ripol | 1746.00 | | NIST Webbook |
| ripol | 1746.00 | | NIST Webbook |
| tb | 554.70 | K | Joback Method |
| tc | 757.96 | K | Joback Method |
| tf | 334.79 | K | Joback Method |
| vc | 0.543 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 381.60 | J/mol×K | 554.70 | Joback Method |
| cpg | 397.07 | J/mol×K | 588.58 | Joback Method |
| cpg | 411.62 | J/mol×K | 622.45 | Joback Method |
| cpg | 425.40 | J/mol×K | 656.33 | Joback Method |
| cpg | 438.57 | J/mol×K | 690.21 | Joback Method |
| cpg | 451.29 | J/mol×K | 724.08 | Joback Method |
| cpg | 463.72 | J/mol×K | 757.96 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R519010&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 |
| **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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

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