# 4-Methylpentyl 3-hydroxy-2-methylenebutanoate

**Inchi:** InChI=1S/C11H20O3/c1-8(2)6-5-7-14-11(13)9(3)10(4)12/h8,10,12H,3,5-7H2,1-2,4H3
**InchiKey:** HLNKZECEKFRDQV-UHFFFAOYSA-N
**Formula:** C11H20O3
**SMILES:** C=C(C(=O)OCCCC(C)C)C(C)O
**Mol. weight [g/mol]:** 200.27

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -254.59 | kJ/mol | Joback Method |
| hf | -562.32 | kJ/mol | Joback Method |
| hfus | 21.48 | kJ/mol | Joback Method |
| hvap | 64.55 | kJ/mol | Joback Method |
| log10ws | -2.28 | | Crippen Method |
| logp | 1.903 | | Crippen Method |
| mcvol | 174.860 | ml/mol | McGowan Method |
| pc | 2327.03 | kPa | Joback Method |
| rinpol | 1387.90 | | NIST Webbook |
| rinpol | 1387.90 | | NIST Webbook |
| tb | 615.23 | K | Joback Method |
| tc | 791.51 | K | Joback Method |
| tf | 300.99 | K | Joback Method |
| vc | 0.664 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 457.65 | J/mol×K | 615.23 | Joback Method |
| cpg | 470.71 | J/mol×K | 644.61 | Joback Method |
| cpg | 483.18 | J/mol×K | 673.99 | Joback Method |
| cpg | 495.06 | J/mol×K | 703.37 | Joback Method |
| cpg | 506.38 | J/mol×K | 732.75 | Joback Method |
| cpg | 517.14 | J/mol×K | 762.13 | Joback Method |
| cpg | 527.35 | J/mol×K | 791.51 | Joback Method |

# Sources

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|---|---|
| **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=U413531&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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 |