# Tetrahydrofuran, 2-methyl-2-(4-methylpentyl)

**Inchi:** InChI=1S/C11H22O/c1-10(2)6-4-7-11(3)8-5-9-12-11/h10H,4-9H2,1-3H3
**InchiKey:** XCZUYIGFSVRKBU-UHFFFAOYSA-N
**Formula:** C11H22O
**SMILES:** CC(C)CCCC1(C)CCCO1
**Mol. weight [g/mol]:** 170.29

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -15.76 | kJ/mol | Joback Method |
| hf | -331.93 | kJ/mol | Joback Method |
| hfus | 16.34 | kJ/mol | Joback Method |
| hvap | 43.31 | kJ/mol | Joback Method |
| log10ws | -3.28 | | Crippen Method |
| logp | 3.382 | | Crippen Method |
| mcvol | 160.860 | ml/mol | McGowan Method |
| pc | 2379.54 | kPa | Joback Method |
| rinpol | 1159.00 | | NIST Webbook |
| ripol | 1325.00 | | NIST Webbook |
| ripol | 1325.00 | | NIST Webbook |
| tb | 493.11 | K | Joback Method |
| tc | 692.17 | K | Joback Method |
| tf | 260.10 | K | Joback Method |
| vc | 0.606 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 381.68 | J/mol×K | 493.11 | Joback Method |
| cpg | 400.83 | J/mol×K | 526.29 | Joback Method |
| cpg | 418.83 | J/mol×K | 559.46 | Joback Method |
| cpg | 435.80 | J/mol×K | 592.64 | Joback Method |
| cpg | 451.83 | J/mol×K | 625.82 | Joback Method |
| cpg | 467.01 | J/mol×K | 658.99 | Joback Method |
| cpg | 481.45 | J/mol×K | 692.17 | 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=R410250&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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |