# 2-Isopropylidenetetrahydrofuran

**Inchi:** InChI=1S/C7H12O/c1-6(2)7-4-3-5-8-7/h3-5H2,1-2H3
**InchiKey:** UZXWDKGGOMPAEZ-UHFFFAOYSA-N
**Formula:** C7H12O
**SMILES:** CC(C)=C1CCCO1
**Mol. weight [g/mol]:** 112.17
**CAS:** 38614-14-1

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 3.11 | kJ/mol | Joback Method |
| hf | -172.75 | kJ/mol | Joback Method |
| hfus | 13.74 | kJ/mol | Joback Method |
| hvap | 37.12 | kJ/mol | Joback Method |
| log10ws | -2.08 | | Crippen Method |
| logp | 2.091 | | Crippen Method |
| mcvol | 100.200 | ml/mol | McGowan Method |
| pc | 3664.21 | kPa | Joback Method |
| tb | 412.98 | K | Joback Method |
| tc | 620.21 | K | Joback Method |
| tf | 206.76 | K | Joback Method |
| vc | 0.374 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 191.81 | J/mol×K | 412.98 | Joback Method |
| cpg | 205.39 | J/mol×K | 447.52 | Joback Method |
| cpg | 218.22 | J/mol×K | 482.06 | Joback Method |
| cpg | 230.33 | J/mol×K | 516.59 | Joback Method |
| cpg | 241.74 | J/mol×K | 551.13 | Joback Method |
| cpg | 252.50 | J/mol×K | 585.67 | Joback Method |
| cpg | 262.64 | J/mol×K | 620.21 | Joback Method |

# Sources

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|---|---|
| **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 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C38614141&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |