# Bicyclo[2.2.1]heptan-1-ol

**Inchi:** InChI=1S/C7H12O/c8-7-3-1-6(5-7)2-4-7/h6,8H,1-5H2
**InchiKey:** NIZFPIBTGJOVRT-UHFFFAOYSA-N
**Formula:** C7H12O
**SMILES:** OC12CCC(CC1)C2
**Mol. weight [g/mol]:** 112.17

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -24.85 | kJ/mol | Joback Method |
| hf | -185.36 | kJ/mol | Joback Method |
| hfus | 5.85 | kJ/mol | Joback Method |
| hvap | 46.70 | kJ/mol | Joback Method |
| log10ws | -1.68 | | Crippen Method |
| logp | 1.311 | | Crippen Method |
| mcvol | 93.640 | ml/mol | McGowan Method |
| pc | 4640.32 | kPa | Joback Method |
| rinpol | 942.00 | | NIST Webbook |
| rinpol | 942.00 | | NIST Webbook |
| ripol | 1495.00 | | NIST Webbook |
| ripol | 1495.00 | | NIST Webbook |
| tb | 469.73 | K | Joback Method |
| tc | 671.19 | K | Joback Method |
| tf | 285.73 | K | Joback Method |
| vc | 0.350 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 217.65 | J/mol×K | 469.73 | Joback Method |
| cpg | 231.01 | J/mol×K | 503.31 | Joback Method |
| cpg | 243.28 | J/mol×K | 536.88 | Joback Method |
| cpg | 254.58 | J/mol×K | 570.46 | Joback Method |
| cpg | 265.03 | J/mol×K | 604.04 | Joback Method |
| cpg | 274.77 | J/mol×K | 637.62 | Joback Method |

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|---|---|---|---|---|
| cpg | 283.90 | J/mol×K | 671.19 | Joback Method |

# Sources

| | |
|---|---|
| **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=R13030&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 |