# 6-methyl-5,6-dihydropyran-2-one

**Inchi:** InChI=1S/C6H8O2/c1-5-3-2-4-6(7)8-5/h2,4-5H,3H2,1H3
**InchiKey:** DYNKRGCMLGUEMN-UHFFFAOYSA-N
**Formula:** C6H8O2
**SMILES:** CC1CC=CC(=O)O1
**Mol. weight [g/mol]:** 112.13

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -154.66 | kJ/mol | Joback Method |
| hf | -324.77 | kJ/mol | Joback Method |
| hfus | 11.84 | kJ/mol | Joback Method |
| hvap | 38.43 | kJ/mol | Joback Method |
| log10ws | -1.06 | | Crippen Method |
| logp | 0.878 | | Crippen Method |
| mcvol | 87.680 | ml/mol | McGowan Method |
| pc | 4288.66 | kPa | Joback Method |
| ripol | 1586.00 | | NIST Webbook |
| ripol | 1586.00 | | NIST Webbook |
| tb | 450.16 | K | Joback Method |
| tc | 678.51 | K | Joback Method |
| tf | 260.31 | K | Joback Method |
| vc | 0.319 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 177.07 | J/mol×K | 450.16 | Joback Method |
| cpg | 189.67 | J/mol×K | 488.22 | Joback Method |
| cpg | 201.74 | J/mol×K | 526.28 | Joback Method |
| cpg | 213.26 | J/mol×K | 564.33 | Joback Method |
| cpg | 224.23 | J/mol×K | 602.39 | Joback Method |
| cpg | 234.62 | J/mol×K | 640.45 | Joback Method |
| cpg | 244.41 | J/mol×K | 678.51 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R314875&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 |