# 2-Chlorocyclohexanol

**Other names:** Cyclohexanol, 2-chloro-
**Inchi:** InChI=1S/C6H11ClO/c7-5-3-1-2-4-6(5)8/h5-6,8H,1-4H2
**InchiKey:** NYEWDMNOXFGGDX-UHFFFAOYSA-N
**Formula:** C6H11ClO
**SMILES:** OC1CCCCC1Cl
**Mol. weight [g/mol]:** 134.60
**CAS:** 1561-86-0

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -132.37 | kJ/mol | Joback Method |
| hf | -301.16 | kJ/mol | Joback Method |
| hfus | 12.49 | kJ/mol | Joback Method |
| hvap | 50.13 | kJ/mol | Joback Method |
| log10ws | -1.87 | | Crippen Method |
| logp | 1.529 | | Crippen Method |
| mcvol | 102.650 | ml/mol | McGowan Method |
| pc | 4072.51 | kPa | Joback Method |
| rinpol | 1032.10 | | NIST Webbook |
| rinpol | 1017.00 | | NIST Webbook |
| rinpol | 1017.00 | | NIST Webbook |
| ripol | 1629.00 | | NIST Webbook |
| ripol | 1658.00 | | NIST Webbook |
| ripol | 1629.00 | | NIST Webbook |
| ripol | 1659.00 | | NIST Webbook |
| ripol | 1658.00 | | NIST Webbook |
| tb | 481.17 | K | Joback Method |
| tc | 681.95 | K | Joback Method |
| tf | 251.26 | K | Joback Method |
| vc | 0.371 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|

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|---|---|---|---|---|
| cpg | 216.66 | J/mol×K | 481.17 | Joback Method |
| cpg | 229.30 | J/mol×K | 514.63 | Joback Method |
| cpg | 241.30 | J/mol×K | 548.10 | Joback Method |
| cpg | 252.67 | J/mol×K | 581.56 | Joback Method |
| cpg | 263.43 | J/mol×K | 615.02 | Joback Method |
| cpg | 273.59 | J/mol×K | 648.48 | Joback Method |
| cpg | 283.17 | J/mol×K | 681.95 | Joback Method |
| dvisc | 0.0353626 | Pa×s | 251.26 | Joback Method |
| dvisc | 0.0087916 | Pa×s | 289.58 | Joback Method |
| dvisc | 0.0030260 | Pa×s | 327.90 | Joback Method |
| dvisc | 0.0013020 | Pa×s | 366.22 | Joback Method |
| dvisc | 0.0006572 | Pa×s | 404.53 | Joback Method |
| dvisc | 0.0003734 | Pa×s | 442.85 | Joback Method |
| dvisc | 0.0002322 | Pa×s | 481.17 | Joback Method |

# Sources

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C1561860&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

# Legend

**cpg:** Ideal gas heat capacity
**dvisc:** Dynamic viscosity
**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 |