# Cyclohexanol,5-(1,1-dimethylethyl)-2-methylene-t

**Inchi:** InChI=1S/C11H20O/c1-8-5-6-9(7-10(8)12)11(2,3)4/h9-10,12H,1,5-7H2,2-4H3/t9-,10+/m0
**InchiKey:** MKWJZCGGUSWUQL-VHSXEESVSA-N
**Formula:** C11H20O
**SMILES:** C=C1CCC(C(C)(C)C)CC1O
**Mol. weight [g/mol]:** 168.28
**CAS:** 19245-70-6

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -22.42 | kJ/mol | Joback Method |
| hf | -313.13 | kJ/mol | Joback Method |
| hfus | 12.67 | kJ/mol | Joback Method |
| hvap | 55.74 | kJ/mol | Joback Method |
| ie | 9.37 ± 0.05 | eV | NIST Webbook |
| ie | 9.37 ± 0.02 | eV | NIST Webbook |
| log10ws | -3.07 | | Crippen Method |
| logp | 2.750 | | Crippen Method |
| mcvol | 156.560 | ml/mol | McGowan Method |
| pc | 2571.50 | kPa | Joback Method |
| tb | 554.07 | K | Joback Method |
| tc | 750.02 | K | Joback Method |
| tf | 293.79 | K | Joback Method |
| vc | 0.576 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 402.06 | J/mol×K | 554.07 | Joback Method |
| cpg | 419.26 | J/mol×K | 586.73 | Joback Method |
| cpg | 435.53 | J/mol×K | 619.39 | Joback Method |
| cpg | 450.89 | J/mol×K | 652.04 | Joback Method |
| cpg | 465.38 | J/mol×K | 684.70 | Joback Method |
| cpg | 479.03 | J/mol×K | 717.36 | Joback Method |
| cpg | 491.87 | J/mol×K | 750.02 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0151885 | Pa×s | 293.79 | Joback Method |
| dvisc | 0.0040285 | Pa×s | 337.17 | Joback Method |
| dvisc | 0.0014460 | Pa×s | 380.55 | Joback Method |
| dvisc | 0.0006401 | Pa×s | 423.93 | Joback Method |
| dvisc | 0.0003297 | Pa×s | 467.31 | Joback Method |
| dvisc | 0.0001900 | Pa×s | 510.69 | Joback Method |
| dvisc | 0.0001194 | Pa×s | 554.07 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C19245706&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 |
| **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 |
| **ie:** | Ionization energy |
| **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 |