# Cyclohexanol, 5-methyl-2-propyl, trans, trans (n-Menthol)

**Inchi:** InChI=1S/C10H20O/c1-3-4-9-6-5-8(2)7-10(9)11/h8-11H,3-7H2,1-2H3/t8-,9+,10+/m1/s1
**InchiKey:** VWXNPISBYOISDJ-UTLUCORTSA-N
**Formula:** C10H20O
**SMILES:** CCCC1CCC(C)CC1O
**Mol. weight [g/mol]:** 156.27

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -94.47 | kJ/mol | Joback Method |
| hf | -388.32 | kJ/mol | Joback Method |
| hfus | 19.72 | kJ/mol | Joback Method |
| hvap | 54.34 | kJ/mol | Joback Method |
| log10ws | -2.80 | | Crippen Method |
| logp | 2.584 | | Crippen Method |
| mcvol | 146.770 | ml/mol | McGowan Method |
| pc | 2637.96 | kPa | Joback Method |
| rinpol | 1188.00 | | NIST Webbook |
| rinpol | 1188.00 | | NIST Webbook |
| tb | 530.59 | K | Joback Method |
| tc | 716.30 | K | Joback Method |
| tf | 262.18 | K | Joback Method |
| vc | 0.545 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 370.12 | J/mol×K | 530.59 | Joback Method |
| cpg | 447.90 | J/mol×K | 685.35 | Joback Method |
| cpg | 433.83 | J/mol×K | 654.39 | Joback Method |
| cpg | 419.04 | J/mol×K | 623.44 | Joback Method |
| cpg | 403.49 | J/mol×K | 592.49 | Joback Method |
| cpg | 387.19 | J/mol×K | 561.54 | Joback Method |
| cpg | 461.25 | J/mol×K | 716.30 | Joback Method |
| dvisc | 0.0001533 | Pa×s | 530.59 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0002407 | Pa×s | 485.85 | Joback Method |
| dvisc | 0.0004142 | Pa×s | 441.12 | Joback Method |
| dvisc | 0.0008057 | Pa×s | 396.38 | Joback Method |
| dvisc | 0.0018562 | Pa×s | 351.65 | Joback Method |
| dvisc | 0.0054544 | Pa×s | 306.91 | Joback Method |
| dvisc | 0.0231540 | Pa×s | 262.18 | 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=R578668&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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