# endo-Fenchol

**Other names:** «alpha»-1,3,3-trimethyl bicyclo[2.2.1]heptan-2-ol
**Inchi:** InChI=1S/C10H18O/c1-9(2)7-4-5-10(3,6-7)8(9)11/h7-8,11H,4-6H2,1-3H3/t7-,8-,10+/m0/s
**InchiKey:** IAIHUHQCLTYTSF-OYNCUSHFSA-N
**Formula:** C10H18O
**SMILES:** CC12CCC(C1)C(C)(C)C2O
**Mol. weight [g/mol]:** 154.25
**CAS:** 14575-74-7

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -20.50 | kJ/mol | Joback Method |
| hf | -272.72 | kJ/mol | Joback Method |
| hfus | 9.46 | kJ/mol | Joback Method |
| hvap | 51.61 | kJ/mol | Joback Method |
| log10ws | -2.45 | | Crippen Method |
| logp | 2.194 | | Crippen Method |
| mcvol | 135.910 | ml/mol | McGowan Method |
| pc | 3166.83 | kPa | Joback Method |
| rinpol | 1117.00 | | NIST Webbook |
| rinpol | 1112.00 | | NIST Webbook |
| rinpol | 1112.00 | | NIST Webbook |
| rinpol | 1106.00 | | NIST Webbook |
| rinpol | 1110.00 | | NIST Webbook |
| rinpol | 1117.00 | | NIST Webbook |
| rinpol | 1117.00 | | NIST Webbook |
| rinpol | 1119.00 | | NIST Webbook |
| rinpol | 1113.00 | | NIST Webbook |
| rinpol | 1117.00 | | NIST Webbook |
| rinpol | 1117.00 | | NIST Webbook |
| rinpol | 1113.00 | | NIST Webbook |
| rinpol | 1090.00 | | NIST Webbook |
| rinpol | 1112.00 | | NIST Webbook |
| rinpol | 1114.00 | | NIST Webbook |
| rinpol | 1094.00 | | NIST Webbook |
| rinpol | 1101.00 | | NIST Webbook |
| rinpol | 1113.00 | | NIST Webbook |
| rinpol | 1103.00 | | NIST Webbook |

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|---|---|---|---|
| rinpol | 1111.00 | | NIST Webbook |
| rinpol | 1134.00 | | NIST Webbook |
| rinpol | 1116.00 | | NIST Webbook |
| rinpol | 1111.00 | | NIST Webbook |
| rinpol | 1114.00 | | NIST Webbook |
| rinpol | 1120.00 | | NIST Webbook |
| rinpol | 1112.00 | | NIST Webbook |
| rinpol | 1111.00 | | NIST Webbook |
| rinpol | 1117.00 | | NIST Webbook |
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| rinpol | 1139.00 | | NIST Webbook |
| rinpol | 1112.00 | | NIST Webbook |
| rinpol | 1118.00 | | NIST Webbook |
| rinpol | 1111.00 | | NIST Webbook |
| rinpol | 1110.00 | | NIST Webbook |
| rinpol | 1117.00 | | NIST Webbook |
| rinpol | 1112.00 | | NIST Webbook |
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| rinpol | 1110.00 | | NIST Webbook |
| rinpol | 1105.00 | | NIST Webbook |
| rinpol | 1116.00 | | NIST Webbook |
| rinpol | 1119.00 | | NIST Webbook |
| rinpol | 1094.00 | | NIST Webbook |
| rinpol | 1112.00 | | NIST Webbook |
| ripol | 1574.00 | | NIST Webbook |
| ripol | 1565.00 | | NIST Webbook |
| ripol | 1574.00 | | NIST Webbook |
| ripol | 1543.00 | | NIST Webbook |
| tb | 529.27 | K | Joback Method |
| tc | 730.21 | K | Joback Method |
| tf | 334.96 | K | Joback Method |
| vc | 0.514 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 354.30 | J/mol×K | 529.27 | Joback Method |
| cpg | 370.25 | J/mol×K | 562.76 | Joback Method |
| cpg | 385.05 | J/mol×K | 596.25 | Joback Method |
| cpg | 398.92 | J/mol×K | 629.74 | Joback Method |
| cpg | 412.02 | J/mol×K | 663.23 | Joback Method |
| cpg | 424.55 | J/mol×K | 696.72 | Joback Method |
| cpg | 436.70 | J/mol×K | 730.21 | Joback Method |

# Sources

**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
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C14575747&Units=SI

# 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
**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