# 4-Methoxybenzhydrol

**Other names:** Benzenemethanol, 4-methoxy-«alpha»-phenyl-
4-methoxybenzhydryl alcohol
**Inchi:** InChI=1S/C14H14O2/c1-16-13-9-7-12(8-10-13)14(15)11-5-3-2-4-6-11/h2-10,14-15H,1H3
**InchiKey:** BEGZWXVLBIZFKQ-UHFFFAOYSA-N
**Formula:** C14H14O2
**SMILES:** COc1ccc(C(O)c2ccccc2)cc1
**Mol. weight [g/mol]:** 214.26
**CAS:** 720-44-5

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 37.93 | kJ/mol | Joback Method |
| hf | -160.43 | kJ/mol | Joback Method |
| hfus | 21.46 | kJ/mol | Joback Method |
| hvap | 70.67 | kJ/mol | Joback Method |
| log10ws | -3.41 | | Crippen Method |
| logp | 2.777 | | Crippen Method |
| mcvol | 172.340 | ml/mol | McGowan Method |
| pc | 2979.54 | kPa | Joback Method |
| tb | 692.22 | K | Joback Method |
| tc | 914.33 | K | Joback Method |
| tf | 380.95 | K | Joback Method |
| vc | 0.634 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 453.40 | J/mol×K | 692.22 | Joback Method |
| cpg | 466.99 | J/mol×K | 729.24 | Joback Method |
| cpg | 479.61 | J/mol×K | 766.26 | Joback Method |
| cpg | 491.28 | J/mol×K | 803.28 | Joback Method |
| cpg | 502.05 | J/mol×K | 840.30 | Joback Method |
| cpg | 511.97 | J/mol×K | 877.32 | Joback Method |
| cpg | 521.07 | J/mol×K | 914.33 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0021509 | Pa×s | 380.95 | Joback Method |
| dvisc | 0.0007098 | Pa×s | 432.83 | Joback Method |
| dvisc | 0.0002970 | Pa×s | 484.71 | Joback Method |
| dvisc | 0.0001470 | Pa×s | 536.59 | Joback Method |
| dvisc | 0.0000824 | Pa×s | 588.46 | Joback Method |
| dvisc | 0.0000507 | Pa×s | 640.34 | Joback Method |
| dvisc | 0.0000336 | Pa×s | 692.22 | Joback Method |

# Sources

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|---|---|
| **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=C720445&Units=SI |

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