# 5H-Dibenzo[a,d]cyclohepten-5-ol, 10,11-dihydro-

**Other names:** Dibenzosuberol
10,11-Dihydro-5H-dibenzo(a,d)cyclohepten-5-ol
5-Hydroxydibenzo[a,d]cyclohepta[1,4]diene
dibenzo(b,f)cycloheptan-1-ol

**Inchi:** InChI=1S/C15H14O/c16-15-13-7-3-1-5-11(13)9-10-12-6-2-4-8-14(12)15/h1-8,15-16H,9-1

**InchiKey:** POAVRNPUPPJLKZ-UHFFFAOYSA-N

**Formula:** C15H14O

**SMILES:** OC1c2ccccc2CCc2ccccc21

**Mol. weight [g/mol]:** 210.27

**CAS:** 1210-34-0

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 204.91 | kJ/mol | Joback Method |
| hf | 17.76 | kJ/mol | Joback Method |
| hfus | 24.13 | kJ/mol | Joback Method |
| hvap | 71.45 | kJ/mol | Joback Method |
| log10ws | -3.96 | | Crippen Method |
| logp | 2.867 | | Crippen Method |
| mcvol | 169.700 | ml/mol | McGowan Method |
| pc | 3072.75 | kPa | Joback Method |
| tb | 704.84 | K | Joback Method |
| tc | 936.55 | K | Joback Method |
| tf | 415.45 | K | Joback Method |
| vc | 0.635 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 533.41 | J/mol×K | 936.55 | Joback Method |
| cpg | 523.52 | J/mol×K | 897.93 | Joback Method |
| cpg | 512.96 | J/mol×K | 859.31 | Joback Method |
| cpg | 501.64 | J/mol×K | 820.69 | Joback Method |
| cpg | 489.46 | J/mol×K | 782.08 | Joback Method |

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|---|---|---|---|---|
| cpg | 476.33 | J/mol×K | 743.46 | Joback Method |
| cpg | 462.14 | J/mol×K | 704.84 | Joback Method |
| dvisc | 0.0019016 | Pa×s | 415.45 | Joback Method |
| dvisc | 0.0001092 | Pa×s | 704.84 | Joback Method |
| dvisc | 0.0001476 | Pa×s | 656.61 | Joback Method |
| dvisc | 0.0002093 | Pa×s | 608.38 | Joback Method |
| dvisc | 0.0003151 | Pa×s | 560.14 | Joback Method |
| dvisc | 0.0005124 | Pa×s | 511.91 | Joback Method |
| dvisc | 0.0009221 | Pa×s | 463.68 | Joback Method |
| hfust | 19.00 | kJ/mol | 365.20 | NIST Webbook |

# Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---|---|---|---|---|
| tbrp | 440.70 | K | 0.10 | NIST Webbook |

# Sources

**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=C1210340&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

# 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
**hfust:** Enthalpy of fusion at a given temperature
**hvap:** Enthalpy of vaporization at standard conditions
**log10ws:** Log10 of Water solubility in mol/l
**logp:** Octanol/Water partition coefficient

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|---|---|
| **mcvol:** | McGowan's characteristic volume |
| **pc:** | Critical Pressure |
| **tb:** | Normal Boiling Point Temperature |
| **tbrp:** | Boiling point at reduced pressure |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |