# 2-Phenylbicyclo[1,1,1]pentane-2-ol

**Inchi:** InChI=1S/C11H12O/c12-11(9-6-10(11)7-9)8-4-2-1-3-5-8/h1-5,9-10,12H,6-7H2
**InchiKey:** AITFJORBIAUXDI-UHFFFAOYSA-N
**Formula:** C11H12O
**SMILES:** OC1(c2ccccc2)C2CC1C2
**Mol. weight [g/mol]:** 160.21
**CAS:** 17684-73-0

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| chs | -6092.30 | kJ/mol | NIST Webbook |
| gf | 137.73 | kJ/mol | Joback Method |
| hf | 135.80 ± 3.20 | kJ/mol | NIST Webbook |
| hfs | 48.70 ± 3.00 | kJ/mol | NIST Webbook |
| hfus | 15.52 | kJ/mol | Joback Method |
| hsub | 87.10 ± 1.10 | kJ/mol | NIST Webbook |
| hsub | 87.10 | kJ/mol | NIST Webbook |
| hvap | 57.23 | kJ/mol | Joback Method |
| log10ws | -2.27 | | Crippen Method |
| logp | 1.914 | | Crippen Method |
| mcvol | 126.240 | ml/mol | McGowan Method |
| pc | 3886.79 | kPa | Joback Method |
| tb | 574.72 | K | Joback Method |
| tc | 793.72 | K | Joback Method |
| tf | 348.75 ± 0.50 | K | NIST Webbook |
| vc | 0.481 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 328.79 | J/mol×K | 574.72 | Joback Method |
| cpg | 342.37 | J/mol×K | 611.22 | Joback Method |
| cpg | 354.89 | J/mol×K | 647.72 | Joback Method |
| cpg | 366.53 | J/mol×K | 684.22 | Joback Method |
| cpg | 377.47 | J/mol×K | 720.72 | Joback Method |

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|---|---|---|---|---|
| cpg | 387.92 | J/mol×K | 757.22 | Joback Method |
| cpg | 398.05 | J/mol×K | 793.72 | Joback Method |

# 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=C17684730&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

| | |
|---|---|
| **chs:** | Standard solid enthalpy of combustion |
| **cpg:** | Ideal gas heat capacity |
| **gf:** | Standard Gibbs free energy of formation |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfs:** | Solid phase enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **hsub:** | Enthalpy of sublimation 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 |

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