# o-(Benzyloxy)phenol

| | |
|---|---|
| **Other names:** | Benzyl o-hydroxyphenyl ether |
| | o-(Benzyloxy)phenol |
| | 2-(Benzyloxy)phenol |
| | Phenol, o-(benzyloxy)- |
| **Inchi:** | InChI=1S/C13H12O2/c14-12-8-4-5-9-13(12)15-10-11-6-2-1-3-7-11/h1-9,14H,10H2 |
| **InchiKey:** | CCZCXFHJMKINPE-UHFFFAOYSA-N |
| **Formula:** | C13H12O2 |
| **SMILES:** | Oc1ccccc1OCc1ccccc1 |
| **Mol. weight [g/mol]:** | 200.24 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -118.38 | kJ/mol | Cheméo Relay (1.0) |
| hfus | 24.48 | kJ/mol | Joback Method |
| hvap | 85.54 | kJ/mol | Cheméo Relay (1.0) |
| ie | 8.10 | eV | Cheméo Relay (1.0) |
| log10ws | -2.63 | | Cheméo Relay (1.0) |
| logp | 2.971 | | Crippen Method |
| mcvol | 158.250 | ml/mol | McGowan Method |
| tb | 572.69 | K | Cheméo Relay (1.0) |
| tf | 328.79 | K | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 401.47 | J/mol×K | 653.24 | Joback Method |
| cpg | 415.76 | J/mol×K | 694.93 | Joback Method |
| cpg | 428.94 | J/mol×K | 736.62 | Joback Method |
| cpg | 441.11 | J/mol×K | 778.31 | Joback Method |
| cpg | 452.41 | J/mol×K | 820.00 | Joback Method |
| cpg | 462.93 | J/mol×K | 861.69 | Joback Method |
| cpg | 472.81 | J/mol×K | 903.38 | Joback Method |
| dvisc | 0.0006297 | Pa×s | 423.06 | Joback Method |
| dvisc | 0.0002739 | Pa×s | 461.42 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0001354 | Pa×s | 499.79 | Joback Method |
| dvisc | 0.0000740 | Pa×s | 538.15 | Joback Method |
| dvisc | 0.0000438 | Pa×s | 576.51 | Joback Method |
| dvisc | 0.0000277 | Pa×s | 614.88 | Joback Method |
| dvisc | 0.0000185 | Pa×s | 653.24 | Joback Method |

# Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---|---|---|---|---|
| tbrp | 446.70 | K | 1.70 | NIST Webbook |

# Sources

**Cheméo Relay (1.0, beta):**

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C6272384&Units=SI

**Joback Method:** https://en.wikipedia.org/wiki/Joback_method

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772

**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

**Cheméo Relay (1.0):**

# Legend

**cpg:** Ideal gas heat capacity

**dvisc:** Dynamic viscosity

**hf:** Enthalpy of formation at standard conditions

**hfus:** Enthalpy of fusion at standard conditions

**hvap:** Enthalpy of vaporization at standard conditions

**ie:** Ionization energy

**log10ws:** Log10 of Water solubility in mol/l

**logp:** Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume

**tb:** Normal Boiling Point Temperature

**tbrp:** Boiling point at reduced pressure

**tf:** Normal melting (fusion) point