# P-BUTOXYBENZYL ALCOHOL

**Other names:** Benzenemethanol, 4-butoxy-
p-Butoxybenzyl alcohol
**Inchi:** InChI=1S/C11H16O2/c1-2-3-8-13-11-6-4-10(9-12)5-7-11/h4-7,12H,2-3,8-9H2,1H3
**InchiKey:** MGKNBDBZIKPUFM-UHFFFAOYSA-N
**Formula:** C11H16O2
**SMILES:** CCCCOc1ccc(CO)cc1
**Mol. weight [g/mol]:** 180.25

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hfus | 23.17 | kJ/mol | Joback Method |
| ie | 8.16 | eV | Cheméo Relay (1.0) |
| log10ws | -2.57 | | Cheméo Relay (1.0) |
| logp | 2.358 | | Crippen Method |
| mcvol | 153.830 | ml/mol | McGowan Method |
| tb | 547.44 | K | Cheméo Relay (1.0) |
| tc | 755.35 | K | Cheméo Relay (1.0) |
| tf | 304.27 | K | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 383.03 | J/mol×K | 597.34 | Joback Method |
| cpg | 395.82 | J/mol×K | 628.96 | Joback Method |
| cpg | 407.97 | J/mol×K | 660.57 | Joback Method |
| cpg | 419.50 | J/mol×K | 692.19 | Joback Method |
| cpg | 430.43 | J/mol×K | 723.81 | Joback Method |
| cpg | 440.78 | J/mol×K | 755.43 | Joback Method |
| cpg | 450.54 | J/mol×K | 787.04 | Joback Method |
| dvisc | 0.0040576 | Pa×s | 335.72 | Joback Method |
| dvisc | 0.0013705 | Pa×s | 379.32 | Joback Method |
| dvisc | 0.0005790 | Pa×s | 422.93 | Joback Method |
| dvisc | 0.0002874 | Pa×s | 466.53 | Joback Method |
| dvisc | 0.0001608 | Pa×s | 510.13 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0000986 | Pa×s | 553.74 | Joback Method |
| dvisc | 0.0000649 | Pa×s | 597.34 | Joback Method |

# Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---|---|---|---|---|
| tbrp | 428.00 ± 1.00 | K | 1.70 | NIST Webbook |

# Sources

**Cheméo Relay (1.0, beta):**

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C6214455&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
**hfus:** Enthalpy of fusion 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
**tc:** Critical Temperature
**tf:** Normal melting (fusion) point

Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.