# O-FLUOROBENZYL ALCOHOL

**Other names:** o-Fluorobenzyl alcohol
Benzenemethanol, 2-fluoro-
2-fluorobenzylic alcohol
**Inchi:** InChI=1S/C7H7FO/c8-7-4-2-1-3-6(7)5-9/h1-4,9H,5H2
**InchiKey:** QEHXDOJPVIHUDO-UHFFFAOYSA-N
**Formula:** C7H7FO
**SMILES:** OCc1ccccc1F
**Mol. weight [g/mol]:** 126.13

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -320.98 | kJ/mol | Cheméo Relay (1.0) |
| hfus | 14.71 | kJ/mol | Joback Method |
| hvap | 70.38 | kJ/mol | Cheméo Relay (1.0) |
| ie | 8.99 | eV | Cheméo Relay (1.0) |
| log10ws | -0.78 | | Cheméo Relay (1.0) |
| logp | 1.318 | | Crippen Method |
| mcvol | 93.370 | ml/mol | McGowan Method |
| tb | 472.50 ± 0.50 | K | NIST Webbook |
| tc | 698.72 | K | Cheméo Relay (1.0) |
| tf | 299.03 | K | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 190.60 | J/mol×K | 482.67 | Joback Method |
| cpg | 199.36 | J/mol×K | 514.53 | Joback Method |
| cpg | 207.65 | J/mol×K | 546.39 | Joback Method |
| cpg | 215.49 | J/mol×K | 578.25 | Joback Method |
| cpg | 222.89 | J/mol×K | 610.10 | Joback Method |
| cpg | 229.87 | J/mol×K | 641.96 | Joback Method |
| cpg | 236.44 | J/mol×K | 673.82 | Joback Method |

# Sources

| | |
|---|---|
| **Cheméo Relay (1.0, beta):** | |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C446515&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

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|---|---|
| **cpg:** | Ideal gas heat capacity |
| **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 |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |