# 2,5-Difluorobenzyl alcohol, n-propyl

**Inchi:** InChI=1S/C10H12F2O/c1-2-5-13-7-8-6-9(11)3-4-10(8)12/h3-4,6H,2,5,7H2,1H3
**InchiKey:** OAWCUFMRMALJMJ-UHFFFAOYSA-N
**Formula:** C10H12F2O
**SMILES:** CCCOCc1cc(F)ccc1F
**Mol. weight [g/mol]:** 186.20

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -368.15 | kJ/mol | Joback Method |
| hf | -560.58 | kJ/mol | Joback Method |
| hfus | 22.27 | kJ/mol | Joback Method |
| hvap | 42.23 | kJ/mol | Joback Method |
| log10ws | -3.36 | | Crippen Method |
| logp | 2.891 | | Crippen Method |
| mcvol | 137.410 | ml/mol | McGowan Method |
| pc | 2540.49 | kPa | Joback Method |
| rinpol | 1154.00 | | NIST Webbook |
| rinpol | 1154.00 | | NIST Webbook |
| tb | 485.80 | K | Joback Method |
| tc | 671.31 | K | Joback Method |
| tf | 277.33 | K | Joback Method |
| vc | 0.541 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 298.70 | J/mol×K | 485.80 | Joback Method |
| cpg | 311.27 | J/mol×K | 516.72 | Joback Method |
| cpg | 323.31 | J/mol×K | 547.64 | Joback Method |
| cpg | 334.82 | J/mol×K | 578.56 | Joback Method |
| cpg | 345.82 | J/mol×K | 609.47 | Joback Method |
| cpg | 356.30 | J/mol×K | 640.39 | Joback Method |
| cpg | 366.29 | J/mol×K | 671.31 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U378163&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **gf:** | Standard Gibbs free energy of formation |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion 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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

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