# 2,3,4,5-Tetrafluorobenzyl alcohol, n-propyl ether

**Inchi:** InChI=1S/C10H10F4O/c1-2-3-15-5-6-4-7(11)9(13)10(14)8(6)12/h4H,2-3,5H2,1H3
**InchiKey:** XKUQFOLZKXWKPT-UHFFFAOYSA-N
**Formula:** C10H10F4O
**SMILES:** CCCOCc1cc(F)c(F)c(F)c1F
**Mol. weight [g/mol]:** 222.18

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -777.03 | kJ/mol | Joback Method |
| hf | -975.74 | kJ/mol | Joback Method |
| hfus | 27.65 | kJ/mol | Joback Method |
| hvap | 41.92 | kJ/mol | Joback Method |
| log10ws | -4.02 | | Crippen Method |
| logp | 3.170 | | Crippen Method |
| mcvol | 140.950 | ml/mol | McGowan Method |
| pc | 2258.96 | kPa | Joback Method |
| rinpol | 1129.00 | | NIST Webbook |
| tb | 494.30 | K | Joback Method |
| tc | 664.85 | K | Joback Method |
| tf | 303.55 | K | Joback Method |
| vc | 0.578 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 315.92 | J/mol×K | 494.30 | Joback Method |
| cpg | 326.72 | J/mol×K | 522.73 | Joback Method |
| cpg | 337.14 | J/mol×K | 551.15 | Joback Method |
| cpg | 347.18 | J/mol×K | 579.58 | Joback Method |
| cpg | 356.84 | J/mol×K | 608.00 | Joback Method |
| cpg | 366.12 | J/mol×K | 636.43 | Joback Method |
| cpg | 375.02 | J/mol×K | 664.85 | Joback Method |

# Sources

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|---|---|
| **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=U375297&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **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 |