# p-Trifluoromethoxybenzyl alcohol

**Other names:** 4-(Trifluoromethoxy)benzyl alcohol
**Inchi:** InChI=1S/C8H7F3O2/c9-8(10,11)13-7-3-1-6(5-12)2-4-7/h1-4,12H,5H2
**InchiKey:** ZLSOZAOCYJDPKX-UHFFFAOYSA-N
**Formula:** C8H7F3O2
**SMILES:** OCc1ccc(OC(F)(F)F)cc1
**Mol. weight [g/mol]:** 192.14
**CAS:** 1736-74-9

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -704.15 | kJ/mol | Joback Method |
| hf | -864.92 | kJ/mol | Joback Method |
| hfus | 17.23 | kJ/mol | Joback Method |
| hvap | 51.68 | kJ/mol | Joback Method |
| log10ws | -2.89 | | Crippen Method |
| logp | 2.077 | | Crippen Method |
| mcvol | 116.870 | ml/mol | McGowan Method |
| pc | 3415.86 | kPa | Joback Method |
| tb | 523.28 | K | Joback Method |
| tc | 704.09 | K | Joback Method |
| tf | 306.10 | K | Joback Method |
| vc | 0.456 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 274.04 | J/mol×K | 523.28 | Joback Method |
| cpg | 283.48 | J/mol×K | 553.41 | Joback Method |
| cpg | 292.38 | J/mol×K | 583.55 | Joback Method |
| cpg | 300.74 | J/mol×K | 613.68 | Joback Method |
| cpg | 308.60 | J/mol×K | 643.82 | Joback Method |
| cpg | 315.97 | J/mol×K | 673.95 | Joback Method |
| cpg | 322.88 | J/mol×K | 704.09 | Joback Method |

# Sources

| | |
|---|---|
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **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=C1736749&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |