# 4-(Trifluoromethyl)phenyl methanol, 2-methylpropyl ether

**Inchi:** InChI=1S/C12H15F3O/c1-9(2)7-16-8-10-3-5-11(6-4-10)12(13,14)15/h3-6,9H,7-8H2,1-2H

**InchiKey:** DMRYYNFUVUSSOF-UHFFFAOYSA-N

**Formula:** C12H15F3O

**SMILES:** CC(C)COCc1ccc(C(F)(F)F)cc1

**Mol. weight [g/mol]:** 232.24

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -536.09 | kJ/mol | Joback Method |
| hf | -800.53 | kJ/mol | Joback Method |
| hfus | 19.98 | kJ/mol | Joback Method |
| hvap | 43.52 | kJ/mol | Joback Method |
| log10ws | -3.97 | | Crippen Method |
| logp | 3.878 | | Crippen Method |
| mcvol | 167.360 | ml/mol | McGowan Method |
| pc | 2106.13 | kPa | Joback Method |
| rinpol | 1230.00 | | NIST Webbook |
| tb | 522.18 | K | Joback Method |
| tc | 708.20 | K | Joback Method |
| tf | 275.36 | K | Joback Method |
| vc | 0.654 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 400.24 | J/mol×K | 522.18 | Joback Method |
| cpg | 415.54 | J/mol×K | 553.18 | Joback Method |
| cpg | 430.01 | J/mol×K | 584.19 | Joback Method |
| cpg | 443.67 | J/mol×K | 615.19 | Joback Method |
| cpg | 456.57 | J/mol×K | 646.19 | Joback Method |
| cpg | 468.73 | J/mol×K | 677.19 | Joback Method |
| cpg | 480.17 | J/mol×K | 708.20 | 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=U374662&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

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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 |