# Benzamide, 2-trifluoromethyl-N-ethyl-N-pentyl-

**Inchi:** InChI=1S/C15H20F3NO/c1-3-5-8-11-19(4-2)14(20)12-9-6-7-10-13(12)15(16,17)18/h6-7,9
**InchiKey:** FWPCWLCVCVCQAN-UHFFFAOYSA-N
**Formula:** C15H20F3NO
**SMILES:** CCCCCN(CC)C(=O)c1ccccc1C(F)(F)F
**Mol. weight [g/mol]:** 287.32

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -421.53 | kJ/mol | Joback Method |
| hf | -770.00 | kJ/mol | Joback Method |
| hfus | 34.70 | kJ/mol | Joback Method |
| hvap | 56.96 | kJ/mol | Joback Method |
| log10ws | -4.81 | | Crippen Method |
| logp | 4.358 | | Crippen Method |
| mcvol | 215.310 | ml/mol | McGowan Method |
| pc | 1740.46 | kPa | Joback Method |
| rinpol | 2010.00 | | NIST Webbook |
| rinpol | 2010.00 | | NIST Webbook |
| tb | 635.15 | K | Joback Method |
| tc | 819.13 | K | Joback Method |
| tf | 384.34 | K | Joback Method |
| vc | 0.835 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 583.89 | J/mol×K | 635.15 | Joback Method |
| cpg | 599.70 | J/mol×K | 665.81 | Joback Method |
| cpg | 614.57 | J/mol×K | 696.48 | Joback Method |
| cpg | 628.54 | J/mol×K | 727.14 | Joback Method |
| cpg | 641.67 | J/mol×K | 757.80 | Joback Method |
| cpg | 654.00 | J/mol×K | 788.47 | Joback Method |
| cpg | 665.58 | J/mol×K | 819.13 | 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=U415603&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 |