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

**Inchi:** InChI=1S/C18H26F3NO/c1-3-5-6-7-8-11-14-22(4-2)17(23)15-12-9-10-13-16(15)18(19,20
**InchiKey:** NSLXIWWVVDABKS-UHFFFAOYSA-N
**Formula:** C18H26F3NO
**SMILES:** CCCCCCCCN(CC)C(=O)c1ccccc1C(F)(F)F
**Mol. weight [g/mol]:** 329.40

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -396.27 | kJ/mol | Joback Method |
| hf | -831.92 | kJ/mol | Joback Method |
| hfus | 42.47 | kJ/mol | Joback Method |
| hvap | 63.64 | kJ/mol | Joback Method |
| log10ws | -6.07 | | Crippen Method |
| logp | 5.528 | | Crippen Method |
| mcvol | 257.580 | ml/mol | McGowan Method |
| pc | 1387.11 | kPa | Joback Method |
| rinpol | 2223.00 | | NIST Webbook |
| rinpol | 2223.00 | | NIST Webbook |
| tb | 703.79 | K | Joback Method |
| tc | 884.99 | K | Joback Method |
| tf | 418.15 | K | Joback Method |
| vc | 1.002 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 747.44 | J/mol×K | 703.79 | Joback Method |
| cpg | 764.20 | J/mol×K | 733.99 | Joback Method |
| cpg | 779.99 | J/mol×K | 764.19 | Joback Method |
| cpg | 794.87 | J/mol×K | 794.39 | Joback Method |
| cpg | 808.90 | J/mol×K | 824.59 | Joback Method |
| cpg | 822.12 | J/mol×K | 854.79 | Joback Method |
| cpg | 834.59 | J/mol×K | 884.99 | Joback Method |

# Sources

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|---|---|
| **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 |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U415607&Units=SI |

# 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 |