

Benzamide, 2-fluoro-N-ethyl-N-decyl-

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|-----------------------------|--|
| Inchi: | InChI=1S/C19H30FNO/c1-3-5-6-7-8-9-10-13-16-21(4-2)19(22)17-14-11-12-15-18(17)20/ |
| InchiKey: | DWHZKVVWGBYYJMA-UHFFFAOYSA-N |
| Formula: | C19H30FNO |
| SMILES: | CCCCCCCCCN(CC)C(=O)c1ccccc1F |
| Mol. weight [g/mol]: | 307.45 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -1.07 | kJ/mol | Joback Method |
| hf | -451.59 | kJ/mol | Joback Method |
| hfus | 46.32 | kJ/mol | Joback Method |
| hvap | 68.80 | kJ/mol | Joback Method |
| log10ws | -6.13 | | Crippen Method |
| logp | 5.428 | | Crippen Method |
| mvol | 268.130 | ml/mol | McGowan Method |
| pc | 1361.64 | kPa | Joback Method |
| rinpol | 2463.00 | | NIST Webbook |
| rinpol | 2463.00 | | NIST Webbook |
| tb | 731.36 | K | Joback Method |
| tc | 916.73 | K | Joback Method |
| tf | 425.82 | K | Joback Method |
| vc | 1.034 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 786.86 | J/mol×K | 731.36 | Joback Method |
| cpg | 804.66 | J/mol×K | 762.26 | Joback Method |
| cpg | 821.48 | J/mol×K | 793.15 | Joback Method |
| cpg | 837.36 | J/mol×K | 824.05 | Joback Method |
| cpg | 852.35 | J/mol×K | 854.94 | Joback Method |
| cpg | 866.49 | J/mol×K | 885.84 | Joback Method |
| cpg | 879.83 | J/mol×K | 916.73 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U415382&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.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 |
| h vap: | 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 |
| r in pol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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