

N-(2,2,3,3,3-Pentafluoropropanoyl)-N-(4-((2,2,3,3,3

| | |
|-----------------------------|--|
| Other names: | Benzene-1,4-diamine, tris(pentafluoropropionate) |
| Inchi: | InChI=1S/C15H5F15N2O3/c16-10(17,13(22,23)24)7(33)31-5-1-3-6(4-2-5)32(8(34)11(18, |
| InchiKey: | RTYRCGYEMCAEBA-UHFFFAOYSA-N |
| Formula: | C15H5F15N2O3 |
| SMILES: | O=C(Nc1ccc(N(C(=O)C(F)(F)C(F)(F)F)C(=O)C(F)(F)C(F)(F)F)cc1)C(F)(F)C(F)(F)F |
| Mol. weight [g/mol]: | 546.19 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|---------|----------------|
| gf | -2913.50 | kJ/mol | Joback Method |
| hf | -3338.76 | kJ/mol | Joback Method |
| hfus | 42.89 | kJ/mol | Joback Method |
| hvap | 60.61 | kJ/mol | Joback Method |
| log10ws | -6.16 | | Crippen Method |
| logp | 5.077 | | Crippen Method |
| mcvol | 249.670 | ml/mol | McGowan Method |
| pc | 1368.70 | kPa | Joback Method |
| rinpol | 1386.00 | | NIST Webbook |
| rinpol | 1386.00 | | NIST Webbook |
| tb | 768.15 | K | Joback Method |
| tc | 943.80 | K | Joback Method |
| tf | 556.04 | K | Joback Method |
| vc | 1.042 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 777.95 | J/molxK | 768.15 | Joback Method |
| cpg | 786.30 | J/molxK | 797.43 | Joback Method |
| cpg | 793.87 | J/molxK | 826.70 | Joback Method |
| cpg | 800.76 | J/molxK | 855.98 | Joback Method |
| cpg | 807.09 | J/molxK | 885.25 | Joback Method |
| cpg | 812.97 | J/molxK | 914.53 | Joback Method |
| cpg | 818.48 | J/molxK | 943.80 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U373240&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 |
| 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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