

Fenoxanil, N-pentafluoropropionyl-

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|-----------------------------|---|
| Inchi: | InChI=1S/C18H17Cl2F5N2O3/c1-9(2)16(4,8-26)27(15(29)17(21,22)18(23,24)25)14(28)1 |
| InchiKey: | ZIOIJIWERZSHCB-UHFFFAOYSA-N |
| Formula: | C18H17Cl2F5N2O3 |
| SMILES: | CC(Oc1ccc(Cl)cc1Cl)C(=O)N(C(=O)C(F)(F)C(F)(F)F)C(C)(C#N)C(C)C |
| Mol. weight [g/mol]: | 475.24 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -919.32 | kJ/mol | Joback Method |
| hf | -1375.07 | kJ/mol | Joback Method |
| hfus | 39.06 | kJ/mol | Joback Method |
| hvap | 87.71 | kJ/mol | Joback Method |
| log10ws | -6.51 | | Crippen Method |
| logp | 5.252 | | Crippen Method |
| mvol | 294.420 | ml/mol | McGowan Method |
| pc | 1285.59 | kPa | Joback Method |
| rinpol | 2050.00 | | NIST Webbook |
| rinpol | 2050.00 | | NIST Webbook |
| tb | 953.20 | K | Joback Method |
| tc | 1174.01 | K | Joback Method |
| tf | 603.68 | K | Joback Method |
| vc | 1.153 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 879.54 | J/mol×K | 953.20 | Joback Method |
| cpg | 889.26 | J/mol×K | 990.00 | Joback Method |
| cpg | 898.30 | J/mol×K | 1026.80 | Joback Method |
| cpg | 906.79 | J/mol×K | 1063.60 | Joback Method |
| cpg | 914.84 | J/mol×K | 1100.40 | Joback Method |
| cpg | 922.57 | J/mol×K | 1137.21 | Joback Method |
| cpg | 930.10 | J/mol×K | 1174.01 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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=U374338&Units=SI |

Legend

| | |
|-----------------|---|
| 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 |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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