

Fumaric acid, monoamide, N-methyl-N-phenyl-, pentafluorobenzyl ester

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| Inchi: | InChI=1S/C18H12F5NO3/c1-24(10-5-3-2-4-6-10)12(25)7-8-13(26)27-9-11-14(19)16(21)1 |
| InchiKey: | ZWVQSLFQAZDRNB-BQYQJAHWSA-N |
| Formula: | C18H12F5NO3 |
| SMILES: | CN(C(=O)C=CC(=O)OCc1c(F)c(F)c(F)c(F)c1F)c1ccccc1 |
| Mol. weight [g/mol]: | 385.28 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|---------|----------------|
| gf | -868.54 | kJ/mol | Joback Method |
| hf | -1152.32 | kJ/mol | Joback Method |
| hfus | 51.52 | kJ/mol | Joback Method |
| hvap | 77.34 | kJ/mol | Joback Method |
| log10ws | -5.31 | | Crippen Method |
| logp | 3.645 | | Crippen Method |
| mcvol | 240.500 | ml/mol | McGowan Method |
| pc | 1700.50 | kPa | Joback Method |
| rinpol | 2382.00 | | NIST Webbook |
| rinpol | 2382.00 | | NIST Webbook |
| tb | 832.61 | K | Joback Method |
| tc | 1036.84 | K | Joback Method |
| tf | 560.49 | K | Joback Method |
| vc | 0.946 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 688.02 | J/molxK | 832.61 | Joback Method |
| cpg | 699.20 | J/molxK | 866.65 | Joback Method |
| cpg | 709.51 | J/molxK | 900.69 | Joback Method |
| cpg | 719.00 | J/molxK | 934.73 | Joback Method |
| cpg | 727.71 | J/molxK | 968.77 | Joback Method |
| cpg | 735.68 | J/molxK | 1002.80 | Joback Method |
| cpg | 742.95 | J/molxK | 1036.84 | 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=U357449&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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