

Mepronil

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|-----------------------------|---|
| Other names: | Basitac Benzamide, 2-methyl-N-(3-(1-methylethoxy)phenyl)- 3'-Isopropoxy-2-methylbenzanilide 2-Methyl-N-(3-(1-methylethoxy)phenyl)benzamide |
| Inchi: | InChI=1S/C17H19NO2/c1-12(2)20-15-9-6-8-14(11-15)18-17(19)16-10-5-4-7-13(16)3/h4- |
| InchiKey: | BCTQJXQXJVL SIG-UHFFFAOYSA-N |
| Formula: | C17H19NO2 |
| SMILES: | <chem>Cc1ccccc1C(=O)Nc1ccc(OC(C)C)c1</chem> |
| Mol. weight [g/mol]: | 269.34 |
| CAS: | 55814-41-0 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 150.85 | kJ/mol | Joback Method |
| hf | -140.70 | kJ/mol | Joback Method |
| hfus | 31.45 | kJ/mol | Joback Method |
| hvap | 74.52 | kJ/mol | Joback Method |
| log10ws | -4.99 | | Crippen Method |
| logp | 4.035 | | Crippen Method |
| mcvol | 220.290 | ml/mol | McGowan Method |
| pc | 2161.32 | kPa | Joback Method |
| rinpol | 2308.00 | | NIST Webbook |
| rinpol | 2298.00 | | NIST Webbook |
| rinpol | 2298.00 | | NIST Webbook |
| rinpol | 2323.00 | | NIST Webbook |
| tb | 777.70 | K | Joback Method |
| tc | 1010.20 | K | Joback Method |
| tf | 469.05 | K | Joback Method |
| vc | 0.825 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 625.49 | J/molxK | 777.70 | Joback Method |

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|-----|--------|---------|---------|---------------|
| cpg | 640.95 | J/mol×K | 816.45 | Joback Method |
| cpg | 655.18 | J/mol×K | 855.20 | Joback Method |
| cpg | 668.21 | J/mol×K | 893.95 | Joback Method |
| cpg | 680.10 | J/mol×K | 932.70 | Joback Method |
| cpg | 690.90 | J/mol×K | 971.45 | Joback Method |
| cpg | 700.66 | J/mol×K | 1010.20 | 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=C55814410&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 |

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