

N-(4-Methoxyphenethyl)benzamide

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| Inchi: | InChI=1S/C16H17NO2/c1-19-15-9-7-13(8-10-15)11-12-17-16(18)14-5-3-2-4-6-14/h2-10H |
| InchiKey: | RAOWOXJDGFFKKD-UHFFFAOYSA-N |
| Formula: | C16H17NO2 |
| SMILES: | COc1ccc(CCNC(=O)c2ccccc2)cc1 |
| Mol. weight [g/mol]: | 255.31 |
| CAS: | 3278-19-1 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 154.50 | kJ/mol | Joback Method |
| hf | -103.31 | kJ/mol | Joback Method |
| hfus | 32.77 | kJ/mol | Joback Method |
| hvap | 72.02 | kJ/mol | Joback Method |
| log10ws | -3.97 | | Crippen Method |
| logp | 2.668 | | Crippen Method |
| mvol | 206.200 | ml/mol | McGowan Method |
| pc | 2384.19 | kPa | Joback Method |
| rinpol | 2363.20 | | NIST Webbook |
| rinpol | 2363.20 | | NIST Webbook |
| tb | 750.28 | K | Joback Method |
| tc | 981.93 | K | Joback Method |
| tf | 460.26 | K | Joback Method |
| vc | 0.774 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 571.36 | J/molxK | 750.28 | Joback Method |
| cpg | 586.44 | J/molxK | 788.89 | Joback Method |
| cpg | 600.32 | J/molxK | 827.50 | Joback Method |
| cpg | 613.05 | J/molxK | 866.10 | Joback Method |
| cpg | 624.70 | J/molxK | 904.71 | Joback Method |
| cpg | 635.30 | J/molxK | 943.32 | Joback Method |
| cpg | 644.92 | J/molxK | 981.93 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C3278191&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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