

Hexanamide, N-(3-nitrophenyl)-

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| Inchi: | InChI=1S/C12H16N2O3/c1-2-3-4-8-12(15)13-10-6-5-7-11(9-10)14(16)17/h5-7,9H,2-4,8H |
| InchiKey: | MPVGXCSUZCMVCI-UHFFFAOYSA-N |
| Formula: | C12H16N2O3 |
| SMILES: | CCCCC(=O)Nc1cccc([N+](=O)[O-])c1 |
| Mol. weight [g/mol]: | 236.27 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 148.96 | kJ/mol | Joback Method |
| hf | -135.82 | kJ/mol | Joback Method |
| hfus | 38.55 | kJ/mol | Joback Method |
| hvap | 75.02 | kJ/mol | Joback Method |
| log10ws | -4.00 | | Crippen Method |
| logp | 3.114 | | Crippen Method |
| mvol | 185.150 | ml/mol | McGowan Method |
| pc | 2587.22 | kPa | Joback Method |
| rinpol | 2179.00 | | NIST Webbook |
| rinpol | 2179.00 | | NIST Webbook |
| tb | 761.50 | K | Joback Method |
| tc | 991.13 | K | Joback Method |
| tf | 510.14 | K | Joback Method |
| vc | 0.723 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 523.01 | J/mol×K | 761.50 | Joback Method |
| cpg | 535.96 | J/mol×K | 799.77 | Joback Method |
| cpg | 547.94 | J/mol×K | 838.04 | Joback Method |
| cpg | 558.99 | J/mol×K | 876.31 | Joback Method |
| cpg | 569.16 | J/mol×K | 914.58 | Joback Method |
| cpg | 578.52 | J/mol×K | 952.85 | Joback Method |
| cpg | 587.11 | J/mol×K | 991.13 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U307292&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |

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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