

P-nitro carbanilic acid, n-decyl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C17H26N2O4/c1-2-3-4-5-6-7-8-9-14-23-17(20)18-15-10-12-16(13-11-15)19(21) |
| InchiKey: | LYVUCZOQWJNQEI-UHFFFAOYSA-N |
| Formula: | C17H26N2O4 |
| SMILES: | CCCCCCCCCOC(=O)Nc1ccc([N+](=O)[O-])cc1 |
| Mol. weight [g/mol]: | 322.40 |
| CAS: | 93814-57-4 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 86.06 | kJ/mol | Joback Method |
| hf | -371.24 | kJ/mol | Joback Method |
| hfus | 52.68 | kJ/mol | Joback Method |
| hvap | 88.56 | kJ/mol | Joback Method |
| log10ws | -6.16 | | Crippen Method |
| logp | 5.284 | | Crippen Method |
| mcvol | 261.470 | ml/mol | McGowan Method |
| pc | 1648.43 | kPa | Joback Method |
| tb | 898.32 | K | Joback Method |
| tc | 1116.00 | K | Joback Method |
| tf | 588.72 | K | Joback Method |
| vc | 1.020 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 829.31 | J/molxK | 898.32 | Joback Method |
| cpg | 843.19 | J/molxK | 934.60 | Joback Method |
| cpg | 855.96 | J/molxK | 970.88 | Joback Method |
| cpg | 867.68 | J/molxK | 1007.16 | Joback Method |
| cpg | 878.38 | J/molxK | 1043.44 | Joback Method |
| cpg | 888.12 | J/molxK | 1079.72 | Joback Method |
| cpg | 896.94 | J/molxK | 1116.00 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=C93814574&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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 |
| hvac: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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