

3-Cyclopentylpropionic acid, 4-nitrophenyl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C14H17NO4/c16-14(10-5-11-3-1-2-4-11)19-13-8-6-12(7-9-13)15(17)18/h6-9,1 |
| InchiKey: | CFYBMLAAOGKARE-UHFFFAOYSA-N |
| Formula: | C14H17NO4 |
| SMILES: | O=C(CCC1CCCC1)Oc1ccc([N+](=O)[O-])cc1 |
| Mol. weight [g/mol]: | 263.29 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 7.96 | kJ/mol | Joback Method |
| hf | -302.31 | kJ/mol | Joback Method |
| hfus | 33.75 | kJ/mol | Joback Method |
| hvap | 75.70 | kJ/mol | Joback Method |
| log10ws | -4.60 | | Crippen Method |
| logp | 3.471 | | Crippen Method |
| mcvol | 198.360 | ml/mol | McGowan Method |
| pc | 2480.12 | kPa | Joback Method |
| rinpol | 2132.00 | | NIST Webbook |
| rinpol | 2132.00 | | NIST Webbook |
| tb | 794.79 | K | Joback Method |
| tc | 1042.07 | K | Joback Method |
| tf | 513.15 | K | Joback Method |
| vc | 0.758 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 594.22 | J/molxK | 794.79 | Joback Method |
| cpg | 609.41 | J/molxK | 836.00 | Joback Method |
| cpg | 623.25 | J/molxK | 877.22 | Joback Method |
| cpg | 635.80 | J/molxK | 918.43 | Joback Method |
| cpg | 647.12 | J/molxK | 959.64 | Joback Method |
| cpg | 657.28 | J/molxK | 1000.86 | Joback Method |
| cpg | 666.34 | J/molxK | 1042.07 | 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=U307136&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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