

Meclofenamic Acid

| | |
|-----------------------------|--|
| Inchi: | InChI=1S/C14H11Cl2NO2/c1-8-6-7-10(15)13(12(8)16)17-11-5-3-2-4-9(11)14(18)19/h2-7 |
| InchiKey: | SBDNJUWAMKYJOX-UHFFFAOYSA-N |
| Formula: | C14H11Cl2NO2 |
| SMILES: | <chem>Cc1ccc(Cl)c(Nc2ccccc2C(=O)O)c1Cl</chem> |
| Mol. weight [g/mol]: | 296.15 |
| CAS: | 644-62-2 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|--------------------------------------|
| gf | 53.09 | kJ/mol | Joback Method |
| hf | -147.93 | kJ/mol | Joback Method |
| hfus | 37.72 | kJ/mol | Joback Method |
| hvap | 92.59 | kJ/mol | Joback Method |
| log10ws | -6.27 | | Aqueous Solubility Prediction Method |
| logp | 4.744 | | Crippen Method |
| mcvol | 202.500 | ml/mol | McGowan Method |
| pc | 2871.95 | kPa | Joback Method |
| rinpola | 2420.00 | | NIST Webbook |
| rinpola | 2420.00 | | NIST Webbook |
| rinpola | 2420.00 | | NIST Webbook |
| tb | 864.08 | K | Joback Method |
| tc | 1097.06 | K | Joback Method |
| tf | 573.71 | K | Joback Method |
| vc | 0.761 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 525.13 | J/molxK | 864.08 | Joback Method |
| cpg | 534.20 | J/molxK | 902.91 | Joback Method |
| cpg | 542.48 | J/molxK | 941.74 | Joback Method |
| cpg | 550.01 | J/molxK | 980.57 | Joback Method |
| cpg | 556.84 | J/molxK | 1019.40 | Joback Method |

| | | | | |
|-----|--------|---------|---------|---------------|
| cpg | 563.01 | J/mol×K | 1058.23 | Joback Method |
| cpg | 568.57 | J/mol×K | 1097.06 | Joback Method |

Sources

| | |
|--|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C644622&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| Aqueous Solubility Prediction Method: | http://onschallenge.wikispaces.com/file/view/AqueousDataset003.xlsx/351830174/AqueousDa |

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 |
| rinpolar: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.cheméo.com/cid/101-380-7/Meclofenamic-Acid.pdf>

Generated by Cheméo on 2024-04-27 10:36:45.161904508 +0000 UTC m=+16503454.082481830.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.