

5-Chlorovaleric acid, 2-methyloct-5-yn-4-yl ester

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|----------------------|---|
| Inchi: | InChI=1S/C14H23ClO2/c1-4-5-8-13(11-12(2)3)17-14(16)9-6-7-10-15/h12-13H,4,6-7,9-11 |
| InchiKey: | LGSSOHRMKNDPBM-UHFFFAOYSA-N |
| Formula: | C14H23ClO2 |
| SMILES: | CCC#CC(CC(C)C)OC(=O)CCCCCl |
| Mol. weight [g/mol]: | 258.78 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 19.07 | kJ/mol | Joback Method |
| hf | -331.09 | kJ/mol | Joback Method |
| hfus | 35.08 | kJ/mol | Joback Method |
| hvap | 61.67 | kJ/mol | Joback Method |
| log10ws | -4.36 | | Crippen Method |
| logp | 3.767 | | Crippen Method |
| mvol | 219.200 | ml/mol | McGowan Method |
| pc | 1769.87 | kPa | Joback Method |
| rinpol | 1703.30 | | NIST Webbook |
| rinpol | 1703.30 | | NIST Webbook |
| tb | 641.56 | K | Joback Method |
| tc | 837.20 | K | Joback Method |
| tf | 425.72 | K | Joback Method |
| vc | 0.843 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 560.51 | J/molxK | 641.56 | Joback Method |
| cpg | 576.80 | J/molxK | 674.17 | Joback Method |
| cpg | 592.26 | J/molxK | 706.77 | Joback Method |
| cpg | 606.93 | J/molxK | 739.38 | Joback Method |
| cpg | 620.81 | J/molxK | 771.99 | Joback Method |
| cpg | 633.92 | J/molxK | 804.59 | Joback Method |
| cpg | 646.28 | J/molxK | 837.20 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U292478&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

| | |
|------------------|---|
| 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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