

3-Chloropropionic acid, tridec-2-ynyl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C16H27ClO2/c1-2-3-4-5-6-7-8-9-10-11-12-15-19-16(18)13-14-17/h2-10,13-15H |
| InchiKey: | FWHBIDZGLNVDFD-UHFFFAOYSA-N |
| Formula: | C16H27ClO2 |
| SMILES: | CCCCCCCCCCC#CCOC(=O)CCCl |
| Mol. weight [g/mol]: | 286.84 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 40.79 | kJ/mol | Joback Method |
| hf | -361.81 | kJ/mol | Joback Method |
| hfus | 47.30 | kJ/mol | Joback Method |
| hvap | 66.90 | kJ/mol | Joback Method |
| log10ws | -5.33 | | Crippen Method |
| logp | 4.693 | | Crippen Method |
| mcvol | 247.380 | ml/mol | McGowan Method |
| pc | 1496.51 | kPa | Joback Method |
| rinpola | 2030.00 | | NIST Webbook |
| rinpola | 2030.00 | | NIST Webbook |
| tb | 688.20 | K | Joback Method |
| tc | 874.33 | K | Joback Method |
| tf | 478.26 | K | Joback Method |
| vc | 0.967 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 667.29 | J/molxK | 688.20 | Joback Method |
| cpg | 683.89 | J/molxK | 719.22 | Joback Method |
| cpg | 699.68 | J/molxK | 750.24 | Joback Method |
| cpg | 714.68 | J/molxK | 781.26 | Joback Method |
| cpg | 728.90 | J/molxK | 812.29 | Joback Method |
| cpg | 742.36 | J/molxK | 843.31 | Joback Method |
| cpg | 755.08 | J/molxK | 874.33 | 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=U299220&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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

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