

Avenaciolide, 1-dihydro-6-[2-(4-chlorophenyl)ethyl]-4-demethyl

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|-----------------------------|---|
| Inchi: | InChI=1S/C14H15ClO4/c15-11-4-1-10(2-5-11)3-6-12-7-8-13(16)18-9-14(17)19-12/h1-2,4 |
| InchiKey: | AKTUIMFOJWVISH-GFCCVEGCSA-N |
| Formula: | C14H15ClO4 |
| SMILES: | O=C1CCC(CCc2ccc(Cl)cc2)OC(=O)CO1 |
| Mol. weight [g/mol]: | 282.72 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -259.32 | kJ/mol | Joback Method |
| hf | -620.37 | kJ/mol | Joback Method |
| hfus | 32.48 | kJ/mol | Joback Method |
| hvap | 72.37 | kJ/mol | Joback Method |
| log10ws | -3.20 | | Crippen Method |
| logp | 2.521 | | Crippen Method |
| mvol | 200.620 | ml/mol | McGowan Method |
| pc | 2561.10 | kPa | Joback Method |
| rinpol | 2385.00 | | NIST Webbook |
| tb | 806.44 | K | Joback Method |
| tc | 1072.12 | K | Joback Method |
| tf | 506.32 | K | Joback Method |
| vc | 0.734 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 597.19 | J/molxK | 806.44 | Joback Method |
| cpg | 613.79 | J/molxK | 850.72 | Joback Method |
| cpg | 628.34 | J/molxK | 895.00 | Joback Method |
| cpg | 640.77 | J/molxK | 939.28 | Joback Method |
| cpg | 651.01 | J/molxK | 983.56 | Joback Method |
| cpg | 659.00 | J/molxK | 1027.84 | Joback Method |
| cpg | 664.67 | J/molxK | 1072.12 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=R565672&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

Legend

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

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