

Avenaciolide, 6-(2-phenylethyl)-4-demethylene

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|-----------------------------|---|
| Inchi: | InChI=1S/C14H14O4/c15-12-8-10-11(17-14(16)13(10)18-12)7-6-9-4-2-1-3-5-9/h1-5,10-1 |
| InchiKey: | JPDNKTJUDXVCLT-NQBHXWOUSA-N |
| Formula: | C14H14O4 |
| SMILES: | O=C1CC2C(CCc3ccccc3)OC(=O)C2O1 |
| Mol. weight [g/mol]: | 246.26 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -148.42 | kJ/mol | Joback Method |
| hf | -522.22 | kJ/mol | Joback Method |
| hfus | 34.18 | kJ/mol | Joback Method |
| hvap | 66.41 | kJ/mol | Joback Method |
| log10ws | -2.28 | | Crippen Method |
| logp | 1.476 | | Crippen Method |
| mvol | 177.520 | ml/mol | McGowan Method |
| pc | 2764.26 | kPa | Joback Method |
| rinpol | 2207.00 | | NIST Webbook |
| rinpol | 2207.00 | | NIST Webbook |
| tb | 753.29 | K | Joback Method |
| tc | 1009.99 | K | Joback Method |
| tf | 488.14 | K | Joback Method |
| vc | 0.664 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 550.19 | J/molxK | 753.29 | Joback Method |
| cpg | 567.73 | J/molxK | 796.07 | Joback Method |
| cpg | 583.70 | J/molxK | 838.86 | Joback Method |
| cpg | 598.11 | J/molxK | 881.64 | Joback Method |
| cpg | 610.99 | J/molxK | 924.42 | Joback Method |
| cpg | 622.36 | J/molxK | 967.21 | Joback Method |
| cpg | 632.25 | J/molxK | 1009.99 | 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=R565890&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 |
| hvpap: | 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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<https://www.chemeo.com/cid/46-803-9/Avenaciolide-6-2-phenylethyl-4-demethylene.pdf>

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