

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

<b>Inchi:</b>	InChI=1S/C14H15ClO4/c15-12-4-2-1-3-10(12)5-6-11-7-8-13(16)18-9-14(17)19-11/h1-4,1
<b>InchiKey:</b>	MJUPTNVLMFWXEF-LLVKDONJSA-N
<b>Formula:</b>	C14H15ClO4
<b>SMILES:</b>	O=C1CCC(CCc2ccccc2Cl)OC(=O)CO1
<b>Mol. weight [g/mol]:</b>	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
mcvol	200.620	ml/mol	McGowan Method
pc	2561.10	kPa	Joback Method
rinpola	2317.00		NIST Webbook
rinpola	2317.00		NIST Webbook
tb	806.44	K	Joback Method
tc	1072.12	K	Joback Method
tf	506.32	K	Joback Method
vc	0.734	m <sup>3</sup> /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

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R565632&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R565632&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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