

# Avenaciolide, 6-[2-(4-chlorophenyl)ethyl]-4-demethylene

<b>Inchi:</b>	InChI=1S/C14H13ClO4/c15-9-4-1-8(2-5-9)3-6-11-10-7-12(16)19-13(10)14(17)18-11/h1-2
<b>InchiKey:</b>	KHUCHHZOJPQGCA-NQBHXWOUA-N
<b>Formula:</b>	C14H13ClO4
<b>SMILES:</b>	O=C1CC2C(CCc3ccc(Cl)cc3)OC(=O)C2O1
<b>Mol. weight [g/mol]:</b>	280.70

## Physical Properties

Property code	Value	Unit	Source
gf	-169.98	kJ/mol	Joback Method
hf	-549.43	kJ/mol	Joback Method
hfus	37.98	kJ/mol	Joback Method
hvap	71.46	kJ/mol	Joback Method
log10ws	-2.97		Crippen Method
logp	2.130		Crippen Method
mvol	189.760	ml/mol	McGowan Method
pc	2619.09	kPa	Joback Method
rinpol	2456.00		NIST Webbook
rinpol	2456.00		NIST Webbook
tb	795.70	K	Joback Method
tc	1054.74	K	Joback Method
tf	530.58	K	Joback Method
vc	0.714	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	574.36	J/mol×K	795.70	Joback Method
cpg	590.12	J/mol×K	838.87	Joback Method
cpg	604.32	J/mol×K	882.05	Joback Method
cpg	616.98	J/mol×K	925.22	Joback Method
cpg	628.11	J/mol×K	968.39	Joback Method
cpg	637.73	J/mol×K	1011.56	Joback Method
cpg	645.86	J/mol×K	1054.74	Joback Method

# Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R565810&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R565810&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

# 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>h vap:</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>r in pol:</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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