

# Avenaciolide, 6-[2-(3-bromophenyl)ethyl]

<b>Inchi:</b>	InChI=1S/C15H13BrO4/c1-8-12-11(19-15(18)13(12)20-14(8)17)6-5-9-3-2-4-10(16)7-9/h2
<b>InchiKey:</b>	PQPPZWZZPBSQJW-JHJVBTASA-N
<b>Formula:</b>	C15H13BrO4
<b>SMILES:</b>	<chem>C=C1C(=O)OC2C(=O)OC(Cc3ccccc(Br)c3)C12</chem>
<b>Mol. weight [g/mol]:</b>	337.17

## Physical Properties

Property code	Value	Unit	Source
gf	-82.23	kJ/mol	Joback Method
hf	-443.76	kJ/mol	Joback Method
hfus	40.50	kJ/mol	Joback Method
hvap	75.89	kJ/mol	Joback Method
log10ws	-3.72		Crippen Method
logp	2.405		Crippen Method
mcvol	204.810	ml/mol	McGowan Method
pc	2698.60	kPa	Joback Method
rinpol	1824.00		NIST Webbook
rinpol	1824.00		NIST Webbook
tb	846.47	K	Joback Method
tc	1109.02	K	Joback Method
tf	585.41	K	Joback Method
vc	0.766	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	612.42	J/mol×K	846.47	Joback Method
cpg	626.71	J/mol×K	890.23	Joback Method
cpg	639.45	J/mol×K	933.99	Joback Method
cpg	650.66	J/mol×K	977.74	Joback Method
cpg	660.36	J/mol×K	1021.50	Joback Method
cpg	668.57	J/mol×K	1065.26	Joback Method
cpg	675.32	J/mol×K	1109.02	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R565741&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R565741&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>

# 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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