

# Avenaciolide, 1-dihydro-6-[2-(4-trifluoromethylphenyl)ethyl]-4-d

<b>Inchi:</b>	InChI=1S/C15H15F3O4/c16-15(17,18)11-4-1-10(2-5-11)3-6-12-7-8-13(19)21-9-14(20)22
<b>InchiKey:</b>	NHMLMBUQUDCMEZ-GFCCVEGCSA-N
<b>Formula:</b>	C15H15F3O4
<b>SMILES:</b>	O=C1CCC(CCc2ccc(C(F)(F)F)cc2)OC(=O)CO1
<b>Mol. weight [g/mol]:</b>	316.27

## Physical Properties

Property code	Value	Unit	Source
gf	-820.56	kJ/mol	Joback Method
hf	-1222.35	kJ/mol	Joback Method
hfus	32.70	kJ/mol	Joback Method
hvap	66.46	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	2.887		Crippen Method
mvol	207.780	ml/mol	McGowan Method
pc	2161.32	kPa	Joback Method
rinpol	2175.00		NIST Webbook
rinpol	2175.00		NIST Webbook
tb	786.47	K	Joback Method
tc	1026.30	K	Joback Method
tf	491.86	K	Joback Method
vc	0.783	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	652.03	J/mol×K	786.47	Joback Method
cpg	668.59	J/mol×K	826.44	Joback Method
cpg	683.42	J/mol×K	866.41	Joback Method
cpg	696.51	J/mol×K	906.38	Joback Method
cpg	707.83	J/mol×K	946.36	Joback Method
cpg	717.38	J/mol×K	986.33	Joback Method
cpg	725.15	J/mol×K	1026.30	Joback Method

# Sources

<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=R565701&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R565701&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>

# 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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