

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

Inchi:	InChI=1S/C14H13FO4/c15-9-4-1-8(2-5-9)3-6-11-10-7-12(16)19-13(10)14(17)18-11/h1-2,
InchiKey:	WVJZOHTUQCJUSD-NQBHXWOUSA-N
Formula:	C14H13FO4
SMILES:	O=C1CC2C(CCc3ccc(F)cc3)OC(=O)C2O1
Mol. weight [g/mol]:	264.25

Physical Properties

Property code	Value	Unit	Source
gf	-352.86	kJ/mol	Joback Method
hf	-729.80	kJ/mol	Joback Method
hfus	36.87	kJ/mol	Joback Method
hvap	66.25	kJ/mol	Joback Method
log10ws	-2.61		Crippen Method
logp	1.615		Crippen Method
mcvol	179.290	ml/mol	McGowan Method
pc	2597.78	kPa	Joback Method
rinsol	2230.00		NIST Webbook
tb	757.54	K	Joback Method
tc	1003.76	K	Joback Method
tf	501.25	K	Joback Method
vc	0.682	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	556.93	J/mol×K	757.54	Joback Method
cpg	573.47	J/mol×K	798.58	Joback Method
cpg	588.58	J/mol×K	839.61	Joback Method
cpg	602.27	J/mol×K	880.65	Joback Method
cpg	614.54	J/mol×K	921.68	Joback Method
cpg	625.42	J/mol×K	962.72	Joback Method
cpg	634.91	J/mol×K	1003.76	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R565830&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
hvap:	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

Latest version available from:

<https://www.chemeo.com/cid/42-604-4/Avenaciolide-6-2-4-fluorophenyl-ethyl-4-demethylene.pdf>

Generated by Cheméo on 2024-04-23 06:21:04.035819322 +0000 UTC m=+16142512.956396638.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.