

4-(2-formylvinyl)-2-methoxyphenyl acetate

Other names:	(E)-2-Methoxy-4-(3-oxoprop-1-en-1-yl)phenyl acetate
Inchi:	InChI=1S/C12H12O4/c1-9(14)16-11-6-5-10(4-3-7-13)8-12(11)15-2/h3-8H,1-2H3/b4-3+
InchiKey:	VEKAJHBFBMWJKI-ONEGZZNKSA-N
Formula:	C12H12O4
SMILES:	COc1cc(C=CC=O)ccc1OC(C)=O
Mol. weight [g/mol]:	220.22
CAS:	65401-83-4

Physical Properties

Property code	Value	Unit	Source
gf	-214.91	kJ/mol	Joback Method
hf	-422.80	kJ/mol	Joback Method
hfus	26.57	kJ/mol	Joback Method
hvap	64.15	kJ/mol	Joback Method
log10ws	-2.43		Crippen Method
logp	1.833		Crippen Method
mcvol	166.760	ml/mol	McGowan Method
pc	2729.71	kPa	Joback Method
rinpol	1861.30		NIST Webbook
tb	662.13	K	Joback Method
tc	878.68	K	Joback Method
tf	407.77	K	Joback Method
vc	0.638	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	413.77	J/molxK	662.13	Joback Method
cpg	426.05	J/molxK	698.22	Joback Method
cpg	437.58	J/molxK	734.31	Joback Method
cpg	448.36	J/molxK	770.40	Joback Method
cpg	458.40	J/molxK	806.49	Joback Method
cpg	467.71	J/molxK	842.59	Joback Method
cpg	476.30	J/molxK	878.68	Joback Method

dvisc	0.0009540	Paxs	407.77	Joback Method
dvisc	0.0005969	Paxs	450.16	Joback Method
dvisc	0.0004049	Paxs	492.56	Joback Method
dvisc	0.0002920	Paxs	534.95	Joback Method
dvisc	0.0002210	Paxs	577.34	Joback Method
dvisc	0.0001737	Paxs	619.74	Joback Method
dvisc	0.0001409	Paxs	662.13	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C65401834&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
mvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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