3-Methoxyphenoxyacetic acid

Other names:	m-Methoxy phenoxy acetic acid
	Acetic acid, (3-methoxyphenoxy)-
Inchi:	InChI=1S/C9H10O4/c1-12-7-3-2-4-8(5-7)13-6-9(10)11/h2-5H,6H2,1H3,(H,10,11)
InchiKey:	AHDPQRIYMMZJTF-UHFFFAOYSA-N
Formula:	C9H10O4
SMILES:	COc1cccc(OCC(=O)O)c1
Mol. weight [g/mol]:	182.17
CAS:	2088-24-6

Physical Properties

Property code	Value	Unit	Source
gf	-348.06	kJ/mol	Joback Method
hf	-533.28	kJ/mol	Joback Method
hfus	20.78	kJ/mol	Joback Method
hvap	66.81	kJ/mol	Joback Method
log10ws	-1.23		Crippen Method
logp	1.159		Crippen Method
mcvol	133.090	ml/mol	McGowan Method
pc	3695.46	kPa	Joback Method
tb	627.87	K	Joback Method
tc	828.27	K	Joback Method
tf	385.34	K	Joback Method
vc	0.492	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.84	J/mol×K	627.87	Joback Method
cpg	370.71	J/mol×K	794.87	Joback Method
cpg	362.83	J/mol×K	761.47	Joback Method
cpg	354.41	J/mol×K	728.07	Joback Method
cpg	345.43	J/mol×K	694.67	Joback Method
cpg	335.91	J/mol×K	661.27	Joback Method
cpg	378.02	J/mol×K	828.27	Joback Method

dvisc	0.0000587	Pa×s	627.87	Joback Method
dvisc	0.0000848	Pa×s	587.45	Joback Method
dvisc	0.0001292	Pa×s	547.03	Joback Method
dvisc	0.0002106	Pa×s	506.61	Joback Method
dvisc	0.0003737	Pa×s	466.18	Joback Method
dvisc	0.0007393	Pa×s	425.76	Joback Method
dvisc	0.0016877	Pa×s	385.34	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2088246&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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