

Acetic acid, (4-methoxyphenoxy)-

Other names:	4-Methoxyphenoxyacetic acid 2-(4-Methoxyphenoxy)acetic acid (p-Methoxyphenoxy)acetic acid Acetic acid, (p-methoxyphenoxy)-
Inchi:	InChI=1S/C9H10O4/c1-12-7-2-4-8(5-3-7)13-6-9(10)11/h2-5H,6H2,1H3,(H,10,11)
InchiKey:	BHFBSBJHPPFJCOS-UHFFFAOYSA-N
Formula:	C9H10O4
SMILES:	COc1ccc(OCC(=O)O)cc1
Mol. weight [g/mol]:	182.17
CAS:	1877-75-4

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/molxK	627.87	Joback Method
cpg	335.91	J/molxK	661.27	Joback Method
cpg	345.43	J/molxK	694.67	Joback Method
cpg	354.41	J/molxK	728.07	Joback Method
cpg	362.83	J/molxK	761.47	Joback Method

cpg	370.71	J/molxK	794.87	Joback Method
cpg	378.02	J/molxK	828.27	Joback Method
dvisc	0.0016877	Paxs	385.34	Joback Method
dvisc	0.0007393	Paxs	425.76	Joback Method
dvisc	0.0003737	Paxs	466.18	Joback Method
dvisc	0.0002106	Paxs	506.61	Joback Method
dvisc	0.0001292	Paxs	547.03	Joback Method
dvisc	0.0000848	Paxs	587.45	Joback Method
dvisc	0.0000587	Paxs	627.87	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C1877754&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
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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