2-Methoxy-5-nitrophenol, acetate

Inchi: InChI=1S/C9H9NO5/c1-6(11)15-9-5-7(10(12)13)3-4-8(9)14-2/h3-5H,1-2H3
InchiKey: XBFBLYSAWSLPRY-UHFFFAOYSA-N
Formula: C9H9NO5
SMILES: COc1ccc([N+](=O)[O-])cc1OC(C)=O
Mol. weight [g/mol]: 211.17

Physical Properties

Property code	Value	Unit	Source
gf	-185.32	kJ/mol	Joback Method
hf	-403.28	kJ/mol	Joback Method
hfus	27.67	kJ/mol	Joback Method
hvap	67.38	kJ/mol	Joback Method
log10ws	-2.56		Crippen Method
logp	1.529		Crippen Method
mcvol	144.640	ml/mol	McGowan Method
pc	3302.95	kPa	Joback Method
rinpol	1722.70		NIST Webbook
tb	692.51	K	Joback Method
tc	931.93	K	Joback Method
tf	480.65	K	Joback Method
vc	0.555	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	367.58	J/mol×K	692.51	Joback Method
cpg	378.70	J/mol×K	732.41	Joback Method
cpg	388.98	J/mol×K	772.32	Joback Method
cpg	398.43	J/mol×K	812.22	Joback Method
cpg	407.02	J/mol×K	852.12	Joback Method
cpg	414.76	J/mol×K	892.02	Joback Method
cpg	421.62	J/mol×K	931.93	Joback Method

Sources

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=U352889&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume