p-acetoxy-acetanilide

Inchi: InChI=1S/C10H11NO3/c1-7(12)11-9-3-5-10(6-4-9)14-8(2)13/h3-6H,1-2H3,(H,11,12)
InchiKey: UJAOSPFULOFZRR-UHFFFAOYSA-N
Formula: C10H11NO3
SMILES: CC(=O)Nc1ccc(OC(C)=O)cc1
Mol. weight [g/mol]: 193.20

Physical Properties

Property code	Value	Unit	Source
gf	-137.35	kJ/mol	Joback Method
hf	-328.58	kJ/mol	Joback Method
hfus	24.79	kJ/mol	Joback Method
hvap	63.13	kJ/mol	Joback Method
log10ws	-1.91		Aqueous Solubility Prediction Method
logp	1.570		Crippen Method
mcvol	146.990	ml/mol	McGowan Method
pc	3302.95	kPa	Joback Method
tb	640.19	K	Joback Method
tc	860.95	K	Joback Method
tf	416.15	K	Joback Method
vc	0.552	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	362.17	J/mol×K	640.19	Joback Method
cpg	374.16	J/mol×K	676.98	Joback Method
cpg	385.36	J/mol×K	713.78	Joback Method
cpg	395.79	J/mol×K	750.57	Joback Method
cpg	405.45	J/mol×K	787.37	Joback Method
cpg	414.37	J/mol×K	824.16	Joback Method
cpg	422.55	J/mol×K	860.95	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume