4-Acetamidoacetophenone

Other names:	p-Acetylaminoacetophenone
	4'-Acetamidoacetophenone
	Acetamide, N-(4-acetylphenyl)-
	N-(p-acetylphenyl)acetamide
Inchi:	InChI=1S/C10H11NO2/c1-7(12)9-3-5-10(6-4-9)11-8(2)13/h3-6H,1-2H3,(H,11,13)
InchiKey:	WECHHDJTILFYQT-UHFFFAOYSA-N
Formula:	C10H11NO2
SMILES:	CC(=O)c1ccc(N=C(C)O)cc1
Mol. weight [g/mol]:	177.20
CAS:	2719-21-3

Physical Properties

Property code	Value	Unit	Source
hf	-217.05	kJ/mol	Joback Method
hvap	67.61	kJ/mol	Joback Method
log10ws	-2.52		Crippen Method
logp	2.497		Crippen Method
mcvol	141.120	ml/mol	McGowan Method
pc	3062.55	kPa	Joback Method
tb	682.47	K	Joback Method
tc	900.99	K	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2719213&Units=SI

Legend

hf:	Enthalpy of formation 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