Acetamide, N-(2,5-dimethylphenyl)-

Other names:	Acetanilide, 2',5'-dimethyl-
	2,5-Dimethylacetanilide
	2',5'-Acetoxylidide
	2',5'-Dimethylacetanilide
	2,5-DMA
	N-(2,5-Dimethylphenyl)acetamide
Inchi:	InChI=1S/C10H13NO/c1-7-4-5-8(2)10(6-7)11-9(3)12/h4-6H,1-3H3,(H,11,12)
InchiKey:	CXLKSNKWHULUKA-UHFFFAOYSA-N
Formula:	C10H13NO
SMILES:	CC(O)=Nc1cc(C)ccc1C
Mol. weight [g/mol]:	163.22
CAS:	2050-44-4

Physical Properties

Property code	Value	Unit	Source
hf	-115.94	kJ/mol	Joback Method
hvap	61.53	kJ/mol	Joback Method
log10ws	-2.81		Crippen Method
logp	2.911		Crippen Method
mcvol	139.550	ml/mol	McGowan Method
pc	2814.34	kPa	Joback Method
rinpol	1591.00		NIST Webbook
rinpol	1591.00		NIST Webbook
tb	633.58	K	Joback Method
tc	846.49	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2050444&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

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature