3',4'-DIMETHYLACETANILIDE

Other names:	N-Acetyl-3,4-xylidine
	3,4-Dimethylacetanilide
	Acetamide, N-(3,4-dimethylphenyl)-
	3',4'-Acetoxylidide
	3',4'-Dimethylacetanilide
	3,4-DMA
	N-(3,4-dimethylphenyl)acetamide
Inchi:	InChI=1S/C10H13NO/c1-7-4-5-10(6-8(7)2)11-9(3)12/h4-6H,1-3H3,(H,11,12)
InchiKey:	UAOIEEWQVAXCFY-UHFFFAOYSA-N
Formula:	C10H13NO
SMILES:	CC(=O)Nc1ccc(C)c(C)c1
Mol. weight [g/mol]:	163.22

Physical Properties

Property code	Value	Unit	Source
hf	-191.83	kJ/mol	Cheméo Relay (1.0)
hfus	21.62	kJ/mol	Joback Method
ie	7.99	eV	Cheméo Relay (1.0)
log10ws	-2.42		Cheméo Relay (1.0)
logp	2.262		Crippen Method
mcvol	139.550	ml/mol	McGowan Method
tb	552.14	K	Cheméo Relay (1.0)
tf	364.62	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	323.02	J/mol×K	568.88	Joback Method
cpg	336.31	J/mol×K	605.09	Joback Method
cpg	348.83	J/mol×K	641.29	Joback Method
cpg	360.60	J/mol×K	677.50	Joback Method
cpg	371.66	J/mol×K	713.70	Joback Method
cpg	382.02	J/mol×K	749.91	Joback Method
cpg	391.70	J/mol×K	786.12	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2198541&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point