

Benzoic acid, 2-(acetylamino)-, methyl ester

Other names:	Anthranilic acid, N-acetyl-, methyl ester Methyl N-acetylanthranilate Methyl N-acetoanthranilate 2-Acetylamino benzoic acid, methyl ester N-Acetyl methyl anthranilate Methyl 2-(N-acetylamino)benzoate Methyl 2-(acetylamino)benzoate
Inchi:	InChI=1S/C10H11NO3/c1-7(12)11-9-6-4-3-5-8(9)10(13)14-2/h3-6H,1-2H3,(H,11,12)
InchiKey:	UYQKZKVNYKOXHG-UHFFFAOYSA-N
Formula:	C10H11NO3
SMILES:	COC(=O)c1ccccc1NC(C)=O
Mol. weight [g/mol]:	193.20
CAS:	2719-08-6

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	-1.92		Crippen Method
logp	1.432		Crippen Method
mcvol	146.990	ml/mol	McGowan Method
pc	3302.95	kPa	Joback Method
rinpol	1607.00		NIST Webbook
rinpol	1622.00		NIST Webbook
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
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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

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2719086&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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