Acetamide, N-(2-methoxyphenyl)-

Other names:	o-Acetanisidide
	o-Methoxyacetanilide
	2'-Methoxyacetanilide
	o-Acetanisidine
	N-Acetyl-O-anisidine
	Aceto-o-anisidine
	Acetanilide, 2'-methoxy-
	2-Methoxyacetanilide
	Acetyl-O-anisidine
	2-(Acetylamino)anisole
	NSC 4004
	Anisidide, o-acet-
	N-(2-methoxyphenyl)acetamide
Inchi:	InChI=1S/C9H11NO2/c1-7(11)10-8-5-3-4-6-9(8)12-2/h3-6H,1-2H3,(H,10,11)
InchiKey:	FGOFNVXHDGQVBG-UHFFFAOYSA-N
Formula:	C9H11NO2
SMILES:	COc1ccccc1NC(C)=O
Mol. weight [g/mol]:	165.19
CAS:	93-26-5

Physical Properties

Property code	Value	Unit	Source
chs	-4046.10 ± 1.50	kJ/mol	NIST Webbook
gf	-16.85	kJ/mol	Joback Method
hf	-195.36	kJ/mol	Joback Method
hfs	-1068.00	kJ/mol	NIST Webbook
hfus	20.60	kJ/mol	Joback Method
hvap	54.16	kJ/mol	Joback Method
log10ws	-1.79		Crippen Method
logp	1.654		Crippen Method
mcvol	131.330	ml/mol	McGowan Method
pc	3431.89	kPa	Joback Method
tb	577.20	K	NIST Webbook
tc	780.85	K	Joback Method
tf	354.95	K	Joback Method
vc	0.490	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	301.19	J/mol×K	563.44	Joback Method
cpg	313.64	J/mol×K	599.68	Joback Method
cpg	325.37	J/mol×K	635.91	Joback Method
cpg	336.41	J/mol×K	672.15	Joback Method
cpg	346.75	J/mol×K	708.38	Joback Method
cpg	356.42	J/mol×K	744.62	Joback Method
cpg	365.43	J/mol×K	780.85	Joback Method

Sources

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=C93265&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase 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