

m-Amino-N,N-dimethylbenzamide

Other names:	3-Amino-N,N-dimethylbenzamide 3-NH ₂ -C ₆ H ₄ CON(CH ₃) ₂ Benzamide, 3-amino-N,N-dimethyl-
Inchi:	InChI=1S/C ₉ H ₁₂ N ₂ O/c1-11(2)9(12)7-4-3-5-8(10)6-7/h3-6H,10H ₂ ,1-2H ₃
InchiKey:	LZPLRAXAVPPVSX-UHFFFAOYSA-N
Formula:	C ₉ H ₁₂ N ₂ O
SMILES:	CN(C)C(=O)c1cccc(N)c1
Mol. weight [g/mol]:	164.20
CAS:	33322-60-0

Physical Properties

Property code	Value	Unit	Source
affp	944.40	kJ/mol	NIST Webbook
basg	913.50	kJ/mol	NIST Webbook
gf	175.99	kJ/mol	Joback Method
hf	-15.29	kJ/mol	Joback Method
hfus	22.54	kJ/mol	Joback Method
hvap	58.00	kJ/mol	Joback Method
log10ws	-1.25		Crippen Method
logp	0.971		Crippen Method
mcvol	135.440	ml/mol	McGowan Method
pc	3682.02	kPa	Joback Method
tb	575.82	K	Joback Method
tc	801.53	K	Joback Method
tf	395.79	K	Joback Method
vc	0.484	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	321.82	J/mol×K	575.82	Joback Method
cpg	334.90	J/mol×K	613.44	Joback Method
cpg	347.09	J/mol×K	651.06	Joback Method
cpg	358.42	J/mol×K	688.68	Joback Method

cpg	368.94	J/mol×K	726.30	Joback Method
cpg	378.69	J/mol×K	763.91	Joback Method
cpg	387.72	J/mol×K	801.53	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C33322600&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

affp:	Proton affinity
basg:	Gas basicity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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