Benzamide, 4-amino-N,N-dimethyl-

Other names: 4-NH2-C6H4CON(CH3)2
Inchi: InChI=1S/C9H12N2O/c1-11(2)9(12)7-3-5-8(10)6-4-7/h3-6H,10H2,1-2H3
InchiKey: QEPGWLBMAAEBCP-UHFFFAOYSA-N
Formula: C9H12N2O
SMILES: CN(C)C(=O)c1ccc(N)cc1
Mol. weight [g/mol]: 164.20
CAS: 6331-71-1

Physical Properties

Property code	Value	Unit	Source
affp	956.90	kJ/mol	NIST Webbook
basg	925.90	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	m3/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=C6331711&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

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