Benzenamine, 4-bromo-N,N-dimethyl-

Other names:	Aniline, p-bromo-N,N-dimethyl- p-Bromo(dimethylamino)benzene 1-Bromo-4-(dimethylamino)benzene p-Bromo-N,N-dimethylaniline 4-Bromo-N,N-dimethylaniline 4-Bromo-N,N-dimethylbenzenamine p-Dimethylaminobromobenzene p-N,N-Dimethylaminobromobenzene 4-Dimethylaminobromobenzene p-(Dimethylamino)phenyl bromide 4-(Dimethylamino)phenyl bromide N,N-Dimethyl-p-bromoaniline N,N-Dimethyl-4-bromoaniline Aniline, 4-bromo-N,N-dimethyl- (4-Bromophenyl)dimethylamine NSC 8056
Inchi:	InChI=1S/C8H10BrN/c1-10(2)8-5-3-7(9)4-6-8/h3-6H,1-2H3
InchiKey:	XYZWMVYYUIMRIZ-UHFFFAOYSA-N
Formula:	C8H10BrN
SMILES:	CN(C)c1ccc(Br)cc1
Mol. weight [g/mol]:	200.08
CAS:	586-77-6

Physical Properties

Property code	Value	Unit	Source
gf	244.36	kJ/mol	Joback Method
hf	110.47	kJ/mol	Joback Method
hfus	18.43	kJ/mol	Joback Method
hvap	44.82	kJ/mol	Joback Method
ie	7.33	eV	NIST Webbook
log10ws	-2.54		Crippen Method
logp	2.515		Crippen Method
mcvol	127.300	ml/mol	McGowan Method
pc	3891.64	kPa	Joback Method
tb	537.20	K	NIST Webbook
tc	719.00	K	Joback Method
tf	311.13	K	Joback Method

vc	0.456	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	244.37	J/mol×K	492.70	Joback Method
cpg	257.10	J/mol×K	530.42	Joback Method
cpg	268.95	J/mol×K	568.13	Joback Method
cpg	279.97	J/mol×K	605.85	Joback Method
cpg	290.20	J/mol×K	643.57	Joback Method
cpg	299.69	J/mol×K	681.29	Joback Method
cpg	308.50	J/mol×K	719.00	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C586776&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
ie: Ionization energy
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