1,2-Benzenediamine, N,N-dimethyl-

Other names:	o-Phenylenediamine, N,N-dimethyl-
	2-Amino-N,N-dimethylaniline
	o-(Dimethylamino)aniline
	2-Dimethylaminoaniline
	N,N-Dimethyl-o-phenylenediamine
	1,2-Phenylenediamine, N,N'-dimethyl-
Inchi:	InChI=1S/C8H12N2/c1-10(2)8-6-4-3-5-7(8)9/h3-6H,9H2,1-2H3
InchiKey:	HJXIRCMNJLIHQR-UHFFFAOYSA-N
Formula:	C8H12N2
SMILES:	CN(C)c1ccccc1N
Mol. weight [g/mol]:	136.19
CAS:	2836-03-5

Physical Properties

Property code	Value	Unit	Source
gf	296.49	kJ/mol	Joback Method
hf	117.93	kJ/mol	Joback Method
hfus	18.35	kJ/mol	Joback Method
hvap	49.02	kJ/mol	Joback Method
log10ws	-1.01		Crippen Method
logp	1.335		Crippen Method
mcvol	119.780	ml/mol	McGowan Method
pc	3834.03	kPa	Joback Method
rinpol	1216.00		NIST Webbook
tb	499.07	K	Joback Method
tc	720.04	K	Joback Method
tf	334.59	K	Joback Method
vc	0.422	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	260.81	J/mol×K	499.07	Joback Method
cpg	274.36	J/mol×K	535.90	Joback Method

cpg	287.05	J/mol×K	572.73	Joback Method
cpg	298.92	J/mol×K	609.56	Joback Method
cpg	310.01	J/mol×K	646.38	Joback Method
cpg	320.35	J/mol×K	683.21	Joback Method
cpg	329.99	J/mol×K	720.04	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=C2836035&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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