N-(2-Hydroxyethyl)-N-methylaniline

Other names:	N-Hydroxyethyl-N-methylaniline
	N-Methyl-N-phenylethanolamine
	2-(N-Methylanilino)ethanol
	Ethanol, 2-(methylphenylamino)-
	Ethanol, 2-(N-methylanilino)-
	N-Methyl-N-«beta»-hydroxyethylaniline
	N-Methyl-N-(hydroxyethyl)aniline
	N-Methyl-N-(2-hydroxyethyl)aniline
	Phenylmethylethanolamine
	2-(Methylphenylamino)ethanol
	2-(N-Methyl-N-phenylamino)ethanol
	2-(N-Methylaniline)ethanol
	2-(N-Fenyl-N-methylamino)ethanol
	NSC 9274
Inchi:	InChI=1S/C9H13NO/c1-10(7-8-11)9-5-3-2-4-6-9/h2-6,11H,7-8H2,1H3
InchiKey:	VIIZJXNVVJKISZ-UHFFFAOYSA-N
Formula:	C9H13NO
SMILES:	CN(CCO)c1ccccc1
Mol. weight [g/mol]:	151.21
CAS:	93-90-3

Physical Properties

Property code	Value	Unit	Source
gf	111.27	kJ/mol	Joback Method
hf	-77.26	kJ/mol	Joback Method
hfus	20.22	kJ/mol	Joback Method
hvap	56.63	kJ/mol	Joback Method
log10ws	-1.06		Crippen Method
logp	1.115		Crippen Method
mcvol	129.760	ml/mol	McGowan Method
pc	3624.61	kPa	Joback Method
tb	536.62	K	Joback Method
tc	729.12	K	Joback Method
tf	310.90	K	Joback Method
vc	0.469	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.41	J/mol×K	536.62	Joback Method
cpg	312.76	J/mol×K	568.70	Joback Method
cpg	324.39	J/mol×K	600.79	Joback Method
cpg	335.32	J/mol×K	632.87	Joback Method
cpg	345.60	J/mol×K	664.96	Joback Method
cpg	355.25	J/mol×K	697.04	Joback Method
cpg	364.30	J/mol×K	729.12	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	423.00 ± 1.00	K	1.90	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C93903&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

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
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume