Phenol, 3-(diethylamino)-

Other names:	Phenol, m-(diethylamino)-
	m-(Diethylamino)phenol
	N,N-Diethyl-m-aminophenol
	3-(Diethylamino)phenol
	3-Hydroxy-N,N-diethylaniline
	N,N-Diethyl-3-aminophenol
	N,N-Diethyl-3-hydroxyaniline
	NSC 93934
Inchi:	InChI=1S/C10H15NO/c1-3-11(4-2)9-6-5-7-10(12)8-9/h5-8,12H,3-4H2,1-2H3
InchiKey:	WAVOOWVINKGEHS-UHFFFAOYSA-N
Formula:	C10H15NO
SMILES:	CCN(CC)c1cccc(O)c1
Mol. weight [g/mol]:	165.23
CAS:	91-68-9

Physical Properties

Property code	Value	Unit	Source
gf	101.89	kJ/mol	Joback Method
hf	-122.98	kJ/mol	Joback Method
hfus	24.50	kJ/mol	Joback Method
hvap	55.19	kJ/mol	Joback Method
log10ws	-1.76		Crippen Method
logp	2.238		Crippen Method
mcvol	143.850	ml/mol	McGowan Method
pc	3460.21	kPa	Joback Method
tb	547.94	K	Joback Method
tc	763.06	K	Joback Method
tf	373.07	K	Joback Method
vc	0.471	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	345.95	J/mol×K	547.94	Joback Method

cpg	360.43	J/mol×K	583.79	Joback Method
cpg	373.90	J/mol×K	619.65	Joback Method
cpg	386.47	J/mol×K	655.50	Joback Method
cpg	398.20	J/mol×K	691.35	Joback Method
cpg	409.19	J/mol×K	727.20	Joback Method
cpg	419.51	J/mol×K	763.06	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	443.20	K	2.00	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C91689&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
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