Benzenemethanamine, N,N,4-trimethyl-

Other names:	Benzylamine, N,N,p-trimethyl- p-Methylbenzyldimethylamine N,N,p-Trimethylbenzylamine 4-N,N-Trimethylbenzylamine p-methyl N,N dimethyl benzylamine
Inchi:	InChI=1S/C10H15N/c1-9-4-6-10(7-5-9)8-11(2)3/h4-7H,8H2,1-3H3
InchiKey:	JAOPKYRWYXCGOQ-UHFFFAOYSA-N
Formula:	C10H15N
SMILES:	Cc1ccc(CN(C)C)cc1
Mol. weight [g/mol]:	149.23
CAS:	4052-88-4

Physical Properties

Property code	Value	Unit	Source
gf	246.88	kJ/mol	Joback Method
hf	42.86	kJ/mol	Joback Method
hfus	18.33	kJ/mol	Joback Method
hvap	42.84	kJ/mol	Joback Method
ie	7.61 ± 0.03	eV	NIST Webbook
log10ws	-2.23		Crippen Method
logp	2.057		Crippen Method
mcvol	137.980	ml/mol	McGowan Method
pc	2878.12	kPa	Joback Method
tb	472.30	K	Joback Method
tc	675.53	K	Joback Method
tf	273.87	K	Joback Method
vc	0.505	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	289.36	J/mol×K	472.30	Joback Method
cpg	304.94	J/mol×K	506.17	Joback Method
cpg	319.66	J/mol×K	540.04	Joback Method

cpg	333.55	J/mol×K	573.91	Joback Method
cpg	346.65	J/mol×K	607.79	Joback Method
cpg	358.98	J/mol×K	641.66	Joback Method
cpg	370.59	J/mol×K	675.53	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4052884&Units=SI

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