Benzenamine, 4-chloro-N,N-diethyl-

Other names: 4-ClC6H4N(C2H5)2
Inchi: InChI=1S/C10H14ClN/c1-3-12(4-2)10-7-5-9(11)6-8-10/h5-8H,3-4H2,1-2H3
InchiKey: LVIXJLIXKMZERD-UHFFFAOYSA-N
Formula: C10H14ClN
SMILES: CCN(CC)c1ccc(Cl)cc1
Mol. weight [g/mol]: 183.68
CAS: 2873-89-4

Physical Properties

Property code	Value	Unit	Source
affp	931.00	kJ/mol	NIST Webbook
basg	899.20	kJ/mol	NIST Webbook
gf	234.95	kJ/mol	Joback Method
hf	27.12	kJ/mol	Joback Method
hfus	22.53	kJ/mol	Joback Method
hvap	47.22	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	3.186		Crippen Method
mcvol	150.220	ml/mol	McGowan Method
pc	2767.17	kPa	Joback Method
tb	509.73	K	Joback Method
tc	718.52	K	Joback Method
tf	303.79	K	Joback Method
vc	0.554	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	318.76	J/mol×K	509.73	Joback Method
cpg	333.53	J/mol×K	544.53	Joback Method
cpg	347.42	J/mol×K	579.33	Joback Method
cpg	360.46	J/mol×K	614.12	Joback Method
cpg	372.69	J/mol×K	648.92	Joback Method
cpg	384.16	J/mol×K	683.72	Joback Method

cpg	394.91	J/mol×K	718.52	Joback Method

Sources

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=C2873894&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

affp:	Proton affinity
basg:	Gas basicity
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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume