Benzenamine, 2-chloro-n-(1',1'-dimethylpropyl)-

Inchi: InChI=1S/C11H16ClN/c1-4-11(2,3)13-10-8-6-5-7-9(10)12/h5-8,13H,4H2,1-3H3
InchiKey: GXOZTGIQRYMPAG-UHFFFAOYSA-N
Formula: C11H16ClN
SMILES: CCC(C)(C)Nc1ccccc1Cl
Mol. weight [g/mol]: 197.70

Physical Properties

Property code	Value	Unit	Source
gf	224.82	kJ/mol	Joback Method
hf	-16.33	kJ/mol	Joback Method
hfus	19.78	kJ/mol	Joback Method
hvap	52.54	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.941		Crippen Method
mcvol	164.310	ml/mol	McGowan Method
pc	2595.13	kPa	Joback Method
tb	567.11	K	Joback Method
tc	789.06	K	Joback Method
tf	337.67	K	Joback Method
vc	0.617	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	383.13	J/mol×K	567.11	Joback Method
cpg	398.82	J/mol×K	604.10	Joback Method
cpg	413.42	J/mol×K	641.09	Joback Method
cpg	427.01	J/mol×K	678.09	Joback Method
cpg	439.64	J/mol×K	715.08	Joback Method
cpg	451.38	J/mol×K	752.07	Joback Method
cpg	462.29	J/mol×K	789.06	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B6009278&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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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