Z-(3-chloro-2-methyl-allyl)-dibutyl-amine

Inchi: InChI=1S/C12H24ClN/c1-4-6-8-14(9-7-5-2)11-12(3)10-13/h10H,4-9,11H2,1-3H3/b12-10-
InchiKey: FLCIITYVSWLZFG-BENRWUELSA-N
Formula: C12H24ClN
SMILES: CCCCN(CCCC)CC(C)=CCl
Mol. weight [g/mol]: 217.78

Physical Properties

Property code	Value	Unit	Source
gf	220.68	kJ/mol	Joback Method
hf	-131.79	kJ/mol	Joback Method
hfus	32.95	kJ/mol	Joback Method
hvap	48.77	kJ/mol	Joback Method
log10ws	-3.92		Crippen Method
logp	4.031		Crippen Method
mcvol	197.860	ml/mol	McGowan Method
pc	1807.70	kPa	Joback Method
rinpol	1364.20		NIST Webbook
rinpol	1364.20		NIST Webbook
ripol	1487.40		NIST Webbook
tb	527.87	K	Joback Method
tc	702.59	K	Joback Method
tf	268.35	K	Joback Method
vc	0.755	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	460.71	J/mol×K	527.87	Joback Method
cpg	477.46	J/mol×K	556.99	Joback Method
cpg	493.40	J/mol×K	586.11	Joback Method
cpg	508.59	J/mol×K	615.23	Joback Method
cpg	523.05	J/mol×K	644.35	Joback Method
cpg	536.82	J/mol×K	673.47	Joback Method
cpg	549.93	J/mol×K	702.59	Joback Method

Sources

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=R154128&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume