N,n-dichloro-cyclohexylamine

Inchi: InChI=1S/C6H11Cl2N/c7-9(8)6-4-2-1-3-5-6/h6H,1-5H2
InchiKey: CFLUYJQBWLZVDH-UHFFFAOYSA-N
Formula: C6H11Cl2N
SMILES: ClN(Cl)C1CCCCC1
Mol. weight [g/mol]: 168.06
CAS: 26307-01-7

Physical Properties

Property code	Value	Unit	Source
gf	111.01	kJ/mol	Joback Method
hf	-76.80	kJ/mol	Joback Method
hfus	14.55	kJ/mol	Joback Method
hvap	40.19	kJ/mol	Joback Method
log10ws	-3.20		Crippen Method
logp	2.929		Crippen Method
mcvol	119.000	ml/mol	McGowan Method
pc	3607.21	kPa	Joback Method
tb	443.53	K	Joback Method
tc	661.42	K	Joback Method
tf	257.07	K	Joback Method
vc	0.420	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	221.84	J/mol×K	443.53	Joback Method
cpg	237.01	J/mol×K	479.84	Joback Method
cpg	251.24	J/mol×K	516.16	Joback Method
cpg	264.56	J/mol×K	552.47	Joback Method
cpg	277.01	J/mol×K	588.79	Joback Method
cpg	288.63	J/mol×K	625.10	Joback Method
cpg	299.45	J/mol×K	661.42	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=C26307017&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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