Cyclohexanamine, N-butyl-

Other names:	Cyclohexylamine, N-butyl-
	Butylcyclohexylamine
	N-Butylcyclohexylamine
Inchi:	InChI=1S/C10H21N/c1-2-3-9-11-10-7-5-4-6-8-10/h10-11H,2-9H2,1H3
InchiKey:	VXXLEXCQCSPKFI-UHFFFAOYSA-N
Formula:	C10H21N
SMILES:	CCCCNC1CCCCC1
Mol. weight [g/mol]:	155.28
CAS:	10108-56-2

Physical Properties

Property code	Value	Unit	Source
gf	147.16	kJ/mol	Joback Method
hf	-141.94	kJ/mol	Joback Method
hfus	18.59	kJ/mol	Joback Method
hvap	44.72	kJ/mol	Joback Method
log10ws	-3.20		Crippen Method
logp	2.709		Crippen Method
mcvol	150.880	ml/mol	McGowan Method
pc	2603.08	kPa	Joback Method
tb	497.92	K	Joback Method
tc	696.97	K	Joback Method
tf	262.50	K	Joback Method
vc	0.564	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	355.33	J/mol×K	497.92	Joback Method
cpg	374.74	J/mol×K	531.10	Joback Method
cpg	393.17	J/mol×K	564.27	Joback Method
cpg	410.65	J/mol×K	597.45	Joback Method
cpg	427.20	J/mol×K	630.62	Joback Method
cpg	442.85	J/mol×K	663.80	Joback Method

cpg	457.63	J/mol×K	696.97	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=C10108562&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
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