N-Butyl-N-propyl-1-butanamine

Other names:	N-Propyldibutylamine
	1-Butanamine, N-butyl-N-propyl-
	Dibutyl propyl amine
	NSC 13550
Inchi:	InChI=1S/C11H25N/c1-4-7-10-12(9-6-3)11-8-5-2/h4-11H2,1-3H3
InchiKey:	VEBPYKMCKZTFPJ-UHFFFAOYSA-N
Formula:	C11H25N
SMILES:	CCCCN(CCC)CCCC
Mol. weight [g/mol]:	171.32
CAS:	36874-77-8

Physical Properties

Property code	Value	Unit	Source
gf	152.52	kJ/mol	Joback Method
hf	-202.84	kJ/mol	Joback Method
hfus	27.27	kJ/mol	Joback Method
hvap	42.12	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	3.299		Crippen Method
mcvol	175.830	ml/mol	McGowan Method
pc	1930.44	kPa	Joback Method
rinpol	1085.60		NIST Webbook
rinpol	1088.00		NIST Webbook
tb	463.52	K	Joback Method
tc	624.04	K	Joback Method
tf	246.20	K	Joback Method
vc	0.669	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	393.80	J/mol×K	463.52	Joback Method
cpg	410.50	J/mol×K	490.27	Joback Method
cpg	426.56	J/mol×K	517.03	Joback Method

cpg	441.98	J/mol×K	543.78	Joback Method
cpg	456.78	J/mol×K	570.54	Joback Method
cpg	470.99	J/mol×K	597.29	Joback Method
cpg	484.61	J/mol×K	624.04	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C36874778&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume