N,N'-di-n-Butyl-1,6-hexanediamine

Other names:	N,N'-di-n-Butyl hexa methylene diamine
	1,6-Hexanediamine, N,N'-dibutyl-
	N,N'-Dibutylhexamethylenediamine
	Dbhmd
	Dibutylhexamethylenediamine
	N,N'-Dibutyl-1,6-hexanediamine
	N,N'-dibutylhexane-1,6-diamine
Inchi:	InChI=1S/C14H32N2/c1-3-5-11-15-13-9-7-8-10-14-16-12-6-4-2/h15-16H,3-14H2,1-2H3
InchiKey:	VZRUGPJUVWRHKM-UHFFFAOYSA-N
Formula:	C14H32N2
SMILES:	CCCCNCCCCCCNCCCC
Mol. weight [g/mol]:	228.42
CAS:	4835-11-4

Physical Properties

Property code	Value	Unit	Source
gf	245.78	kJ/mol	Joback Method
hf	-225.35	kJ/mol	Joback Method
hfus	42.21	kJ/mol	Joback Method
hvap	59.63	kJ/mol	Joback Method
log10ws	-4.06		Crippen Method
logp	3.326		Crippen Method
mcvol	228.080	ml/mol	McGowan Method
pc	1554.90	kPa	Joback Method
tb	620.06	K	Joback Method
tc	786.46	K	Joback Method
tf	352.86	K	Joback Method
vc	0.889	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	630.32	J/mol×K	620.06	Joback Method
cpg	648.07	J/mol×K	647.79	Joback Method

cpg	665.08	J/mol×K	675.53	Joback Method
cpg	681.34	J/mol×K	703.26	Joback Method
cpg	696.90	J/mol×K	731.00	Joback Method
cpg	711.76	J/mol×K	758.73	Joback Method
cpg	725.96	J/mol×K	786.46	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=C4835114&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume