Hexanamide, N,N-dibutyl-

Other names:	N,N-Dibutyl caproamide
	N,N-Dibutylhexanamide
Inchi:	InChI=1S/C14H29NO/c1-4-7-10-11-14(16)15(12-8-5-2)13-9-6-3/h4-13H2,1-3H3
InchiKey:	UXSDBOJDRMUQDM-UHFFFAOYSA-N
Formula:	C14H29NO
SMILES:	CCCCCC(=O)N(CCCC)CCCC
Mol. weight [g/mol]:	227.39
CAS:	52868-51-6

Physical Properties

Property code	Value	Unit	Source
gf	48.86	kJ/mol	Joback Method
hf	-377.34	kJ/mol	Joback Method
hfus	36.64	kJ/mol	Joback Method
hvap	55.55	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	3.996		Crippen Method
mcvol	219.670	ml/mol	McGowan Method
pc	1598.72	kPa	Joback Method
ripol	2869.00		NIST Webbook
ripol	2869.00		NIST Webbook
tb	586.03	K	Joback Method
tc	752.99	K	Joback Method
tf	329.94	K	Joback Method
vc	0.844	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	576.06	J/mol×K	586.03	Joback Method
cpg	593.60	J/mol×K	613.86	Joback Method
cpg	610.38	J/mol×K	641.68	Joback Method
cpg	626.41	J/mol×K	669.51	Joback Method
cpg	641.73	J/mol×K	697.34	Joback Method

cpg	656.35	J/mol×K	725.16	Joback Method
cpg	670.31	J/mol×K	752.99	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=C52868516&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume