

Propanamide, N,N-dibutyl-3-chloro-

Inchi:	InChI=1S/C11H22ClNO/c1-3-5-9-13(10-6-4-2)11(14)7-8-12/h3-10H2,1-2H3
InchiKey:	ALAPRJIGPQQKKY-UHFFFAOYSA-N
Formula:	C11H22ClNO
SMILES:	CCCCN(CCCC)C(=O)CCCl
Mol. weight [g/mol]:	219.75

Physical Properties

Property code	Value	Unit	Source
gf	11.67	kJ/mol	Joback Method
hf	-331.16	kJ/mol	Joback Method
hfus	33.06	kJ/mol	Joback Method
hvap	53.25	kJ/mol	Joback Method
log10ws	-2.93		Crippen Method
logp	3.044		Crippen Method
mvol	189.640	ml/mol	McGowan Method
pc	1975.31	kPa	Joback Method
rinpol	1592.00		NIST Webbook
rinpol	1592.00		NIST Webbook
tb	554.82	K	Joback Method
tc	729.73	K	Joback Method
tf	326.05	K	Joback Method
vc	0.725	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	456.11	J/mol×K	554.82	Joback Method
cpg	471.26	J/mol×K	583.97	Joback Method
cpg	485.71	J/mol×K	613.12	Joback Method
cpg	499.48	J/mol×K	642.28	Joback Method
cpg	512.60	J/mol×K	671.43	Joback Method
cpg	525.08	J/mol×K	700.58	Joback Method
cpg	536.95	J/mol×K	729.73	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=U308500&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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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