

Propanamide, N,N-diundecyl-3-chloro-

Inchi: InChI=1S/C25H50ClNO/c1-3-5-7-9-11-13-15-17-19-23-27(25(28)21-22-26)24-20-18-16-14
InchiKey: ABKLQBLNOWQLPQ-UHFFFAOYSA-N
Formula: C₂₅H₅₀ClNO
SMILES: CCCCCCCCCCN(CCCCCCCCCC)C(=O)CCCI
Mol. weight [g/mol]: 416.12

Physical Properties

Property code	Value	Unit	Source
gf	129.55	kJ/mol	Joback Method
hf	-620.12	kJ/mol	Joback Method
hfus	69.32	kJ/mol	Joback Method
hvap	84.42	kJ/mol	Joback Method
log10ws	-8.79		Crippen Method
logp	8.506		Crippen Method
mvol	386.900	ml/mol	McGowan Method
pc	774.18	kPa	Joback Method
rinpol	3007.00		NIST Webbook
rinpol	3007.00		NIST Webbook
tb	875.14	K	Joback Method
tc	1072.37	K	Joback Method
tf	483.83	K	Joback Method
vc	1.508	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1267.45	J/mol×K	875.14	Joback Method
cpg	1289.38	J/mol×K	908.01	Joback Method
cpg	1310.07	J/mol×K	940.88	Joback Method
cpg	1329.61	J/mol×K	973.75	Joback Method
cpg	1348.05	J/mol×K	1006.62	Joback Method
cpg	1365.48	J/mol×K	1039.50	Joback Method
cpg	1381.95	J/mol×K	1072.37	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308510&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
rlnol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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