

DL-Alanine, N-methyl-N-(3-chloropropoxycarbonyl)-, tetradecyl ester

InChI: C22H42ClNO4
InChIKey: VEABIJQMWXVRMH-UHFFFAOYSA-N

Formula: C₂₂H₄₂ClNO₄

SMILES: CCCCCCCCCCCCCOC(=O)C(C)N(C)C(=O)OCCCCI

Mol. weight [g/mol]: 420.03

Physical Properties

Property code	Value	Unit	Source
gf	-237.07	kJ/mol	Joback Method
hf	-940.50	kJ/mol	Joback Method
hfus	62.00	kJ/mol	Joback Method
hvap	88.92	kJ/mol	Joback Method
log10ws	-6.57		Crippen Method
logp	6.317		Crippen Method
mvol	357.940	ml/mol	McGowan Method
pc	935.77	kPa	Joback Method
rinpol	2769.00		NIST Webbook
rinpol	2769.00		NIST Webbook
tb	904.77	K	Joback Method
tc	1108.02	K	Joback Method
tf	529.41	K	Joback Method
vc	1.377	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1167.81	J/mol×K	904.77	Joback Method
cpg	1186.21	J/mol×K	938.65	Joback Method
cpg	1203.29	J/mol×K	972.52	Joback Method
cpg	1219.09	J/mol×K	1006.40	Joback Method
cpg	1233.66	J/mol×K	1040.27	Joback Method
cpg	1247.02	J/mol×K	1074.15	Joback Method
cpg	1259.22	J/mol×K	1108.02	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=U392786&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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