

DL-Alanine, N-methyl-N-hexyloxycarbonyl-, octadecyl ester

Inchi:	InChI=1S/C29H57NO4/c1-5-7-9-11-12-13-14-15-16-17-18-19-20-21-22-24-25-33-28(31)
InchiKey:	URGKDINXBVFKJ-UHFFFAOYSA-N
Formula:	C29H57NO4
SMILES:	CCCCCCCCCCCCCCCCCOC(=O)C(C)N(C)C(=O)OCCCCC
Mol. weight [g/mol]:	483.77

Physical Properties

Property code	Value	Unit	Source
gf	-166.20	kJ/mol	Joback Method
hf	-1069.24	kJ/mol	Joback Method
hfus	75.94	kJ/mol	Joback Method
hvap	100.12	kJ/mol	Joback Method
log10ws	-9.35		Crippen Method
logp	8.828		Crippen Method
mvol	444.330	ml/mol	McGowan Method
pc	656.12	kPa	Joback Method
rinpol	3184.00		NIST Webbook
rinpol	3184.00		NIST Webbook
tb	1027.50	K	Joback Method
tc	1285.62	K	Joback Method
tf	578.38	K	Joback Method
vc	1.720	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1585.48	J/molxK	1027.50	Joback Method
cpg	1609.16	J/molxK	1070.52	Joback Method
cpg	1630.51	J/molxK	1113.54	Joback Method
cpg	1649.64	J/molxK	1156.56	Joback Method
cpg	1666.68	J/molxK	1199.58	Joback Method
cpg	1681.73	J/molxK	1242.60	Joback Method
cpg	1694.92	J/molxK	1285.62	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=U392647&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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