

L-Leucine, N-methyl-N-(2-ethylhexyloxycarbonyl)-, dodecyl ester

InChI: InChI=1S/C28H55NO4/c1-7-10-12-13-14-15-16-17-18-19-21-32-27(30)26(22-24(4)5)29(6)
InChIKey: FXWHZNQNMRYCCL-UHFFFAOYSA-N

Formula: C28H55NO4

SMILES: CCCCCCCCCCOC(=O)C(CC(C)C)N(C)C(=O)OCC(CC)CCCC

Mol. weight [g/mol]: 469.74

Physical Properties

Property code	Value	Unit	Source
gf	-179.50	kJ/mol	Joback Method
hf	-1059.16	kJ/mol	Joback Method
hfus	66.30	kJ/mol	Joback Method
hvap	97.11	kJ/mol	Joback Method
log10ws	-8.44		Crippen Method
logp	8.150		Crippen Method
mvol	430.240	ml/mol	McGowan Method
pc	695.45	kPa	Joback Method
rinpol	2801.00		NIST Webbook
rinpol	2801.00		NIST Webbook
tb	1003.74	K	Joback Method
tc	1243.81	K	Joback Method
tf	537.11	K	Joback Method
vc	1.651	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1520.75	J/molxK	1003.74	Joback Method
cpg	1543.08	J/molxK	1043.75	Joback Method
cpg	1563.35	J/molxK	1083.76	Joback Method
cpg	1581.66	J/molxK	1123.78	Joback Method
cpg	1598.09	J/molxK	1163.79	Joback Method
cpg	1612.73	J/molxK	1203.80	Joback Method
cpg	1625.67	J/molxK	1243.81	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=U392395&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
h vap:	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
r in pol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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