L-Leucine, N-methyl-N-((1R)-(-)-menthyloxycarbonyl)-, (1R)-(-)-menthyl ester

InChI: InChI=1S/C28H51NO4/c1-17(2)14-24(27(30)32-25-15-20(7)10-12-22(25)18(3)4)29(9)28(

InChIKey: MQFUNHCYZUYIBW-UHFFFAOYSA-N

Formula: C28H51NO4

SMILES: CC(C)CC(C(=O)OC1CC(C)CCC1C(C)C)N(C)C(=O)OC1CC(C)CCC1C(C)C

Mol. weight [g/mol]: 465.71

Physical Properties

Property code	Value	Unit	Source
gf	-163.88	kJ/mol	Joback Method
hf	-1037.16	kJ/mol	Joback Method
hfus	50.73	kJ/mol	Joback Method
hvap	96.35	kJ/mol	Joback Method
log10ws	-7.25		Crippen Method
logp	6.934		Crippen Method
mcvol	408.520	ml/mol	McGowan Method
pc	813.53	kPa	Joback Method
tb	1023.72	K	Joback Method
tc	1253.52	K	Joback Method
tf	519.91	K	Joback Method
vc	1.508	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1528.76	J/mol×K	1023.72	Joback Method
cpg	1547.44	J/mol×K	1062.02	Joback Method
cpg	1563.57	J/mol×K	1100.32	Joback Method
cpg	1577.19	J/mol×K	1138.62	Joback Method
cpg	1588.33	J/mol×K	1176.92	Joback Method
cpg	1597.06	J/mol×K	1215.22	Joback Method
cpg	1603.41	J/mol×K	1253.52	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U392424&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume