

# L-Lysine, N(O,S)-ethoxycarbonyl, (S)-(+)-3-methyl-2-butyl ester

<b>Inchi:</b>	InChI=1S/C17H32N2O6/c1-6-23-16(21)18-11-9-8-10-14(19-17(22)24-7-2)15(20)25-13(5)
<b>InchiKey:</b>	GKTOTRKMGWYSG-KWCCSABGSA-N
<b>Formula:</b>	C17H32N2O6
<b>SMILES:</b>	CCOC(=O)NCCCCC(NC(=O)OCC)C(=O)OC(C)C(C)C
<b>Mol. weight [g/mol]:</b>	360.45

## Physical Properties

Property code	Value	Unit	Source
gf	-438.04	kJ/mol	Joback Method
hf	-1037.51	kJ/mol	Joback Method
hfus	47.78	kJ/mol	Joback Method
hvap	92.61	kJ/mol	Joback Method
log10ws	-3.84		Crippen Method
logp	2.605		Crippen Method
mcvol	292.670	ml/mol	McGowan Method
pc	1411.18	kPa	Joback Method
rinpol	2383.30		NIST Webbook
tb	916.25	K	Joback Method
tc	1122.68	K	Joback Method
tf	558.15	K	Joback Method
vc	1.111	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	962.30	J/molxK	916.25	Joback Method
cpg	976.41	J/molxK	950.65	Joback Method
cpg	989.19	J/molxK	985.06	Joback Method
cpg	1000.64	J/molxK	1019.46	Joback Method
cpg	1010.76	J/molxK	1053.87	Joback Method
cpg	1019.56	J/molxK	1088.27	Joback Method
cpg	1027.04	J/molxK	1122.68	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R502126&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R502126&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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