

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

Inchi:	InChI=1S/C18H33NO6/c1-8-23-18(22)19-15(17(21)25-14(7)12(4)5)9-10-16(20)24-13(6)1
InchiKey:	QOBXCSPBRMIZOJ-GRKKQISMSA-N
Formula:	C18H33NO6
SMILES:	CCOC(=O)NC(CCC(=O)OC(C)C(C)C)C(=O)OC(C)C(C)C
Mol. weight [g/mol]:	359.46

## Physical Properties

Property code	Value	Unit	Source
gf	-523.89	kJ/mol	Joback Method
hf	-1122.18	kJ/mol	Joback Method
hfus	38.22	kJ/mol	Joback Method
hvap	87.63	kJ/mol	Joback Method
log10ws	-3.96		Crippen Method
logp	3.057		Crippen Method
mcvol	296.780	ml/mol	McGowan Method
pc	1317.52	kPa	Joback Method
rinsol	2148.70		NIST Webbook
tb	888.08	K	Joback Method
tc	1090.76	K	Joback Method
tf	486.76	K	Joback Method
vc	1.121	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	964.55	J/mol×K	888.08	Joback Method
cpg	979.82	J/mol×K	921.86	Joback Method
cpg	993.77	J/mol×K	955.64	Joback Method
cpg	1006.41	J/mol×K	989.42	Joback Method
cpg	1017.75	J/mol×K	1023.20	Joback Method
cpg	1027.77	J/mol×K	1056.98	Joback Method
cpg	1036.50	J/mol×K	1090.76	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=R502082&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R502082&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>mccvol:</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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