

# L-Serine, N,O-bis(5-chlorovaleyl), methyl ester

<b>Other names:</b>	L-Seine, N,O-bis(5-chlorovaleyl), methyl ester
<b>Inchi:</b>	InChI=1S/C14H23Cl2NO5/c1-21-14(20)11(17-12(18)6-2-4-8-15)10-22-13(19)7-3-5-9-16/
<b>InchiKey:</b>	AFGCSGILQIJBKA-UHFFFAOYSA-N
<b>Formula:</b>	C14H23Cl2NO5
<b>SMILES:</b>	<chem>COC(=O)C(COC(=O)CCCCCl)NC(=O)CCCCCl</chem>
<b>Mol. weight [g/mol]:</b>	356.24

## Physical Properties

Property code	Value	Unit	Source
gf	-466.67	kJ/mol	Joback Method
hf	-917.76	kJ/mol	Joback Method
hfus	49.16	kJ/mol	Joback Method
hvap	86.63	kJ/mol	Joback Method
log10ws	-2.79		Crippen Method
logp	2.006		Crippen Method
mcvol	259.030	ml/mol	McGowan Method
pc	1652.46	kPa	Joback Method
rinpol	2453.00		NIST Webbook
rinpol	2453.00		NIST Webbook
tb	850.76	K	Joback Method
tc	1050.60	K	Joback Method
tf	539.29	K	Joback Method
vc	1.000	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	752.30	J/molxK	850.76	Joback Method
cpg	764.50	J/molxK	884.07	Joback Method
cpg	775.75	J/molxK	917.37	Joback Method
cpg	786.07	J/molxK	950.68	Joback Method
cpg	795.45	J/molxK	983.99	Joback Method
cpg	803.91	J/molxK	1017.29	Joback Method
cpg	811.46	J/molxK	1050.60	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=U299720&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U299720&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>hvp:</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</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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