

# L-Homoserine, N,O-dimethyl-, methyl ester

<b>Other names:</b>	Methyl N,O-dimethyl-L-homoserinate
<b>Inchi:</b>	InChI=1S/C7H15NO3/c1-8-6(4-5-10-2)7(9)11-3/h6,8H,4-5H2,1-3H3
<b>InchiKey:</b>	FSGGHDZDWZFNKF-UHFFFAOYSA-N
<b>Formula:</b>	C7H15NO3
<b>SMILES:</b>	CNC(CCOC)C(=O)OC
<b>Mol. weight [g/mol]:</b>	161.20

## Physical Properties

Property code	Value	Unit	Source
gf	-243.91	kJ/mol	Joback Method
hf	-516.64	kJ/mol	Joback Method
hfus	19.44	kJ/mol	Joback Method
hvap	48.79	kJ/mol	Joback Method
log10ws	-3.69e-03		Crippen Method
logp	-0.216		Crippen Method
mcvol	132.780	ml/mol	McGowan Method
pc	2953.69	kPa	Joback Method
rinpol	1418.80		NIST Webbook
rinpol	1418.80		NIST Webbook
tb	508.00	K	Joback Method
tc	690.56	K	Joback Method
tf	300.70	K	Joback Method
vc	0.498	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.87	J/mol×K	508.00	Joback Method
cpg	318.76	J/mol×K	538.43	Joback Method
cpg	330.22	J/mol×K	568.85	Joback Method
cpg	341.26	J/mol×K	599.28	Joback Method
cpg	351.87	J/mol×K	629.70	Joback Method
cpg	362.03	J/mol×K	660.13	Joback Method
cpg	371.76	J/mol×K	690.56	Joback Method

# Sources

<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=U332846&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U332846&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>hvap:</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>rinpola:</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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