

# DL-Methionine, N-acetyl-, ethyl ester

<b>Other names:</b>	Methionine, N-acetyl-, ethyl ester, DL-N-Acetyl-DL-methionine ethyl ester (dl) N-acetylmethionine ethyl ester
<b>Inchi:</b>	InChI=1S/C9H17NO3S/c1-4-13-9(12)8(5-6-14-3)10-7(2)11/h8H,4-6H2,1-3H3,(H,10,11)
<b>InchiKey:</b>	HWRSILOQIXCGQU-UHFFFAOYSA-N
<b>Formula:</b>	C9H17NO3S
<b>SMILES:</b>	CCOC(=O)C(CCSC)NC(C)=O
<b>Mol. weight [g/mol]:</b>	219.30
<b>CAS:</b>	33280-93-2

## Physical Properties

Property code	Value	Unit	Source
gf	-217.87	kJ/mol	Joback Method
hf	-496.41	kJ/mol	Joback Method
hfus	29.16	kJ/mol	Joback Method
hvap	64.40	kJ/mol	Joback Method
log10ws	-1.41		Crippen Method
logp	0.807		Crippen Method
mcvol	173.010	ml/mol	McGowan Method
pc	2670.78	kPa	Joback Method
tb	653.99	K	Joback Method
tc	857.62	K	Joback Method
tf	385.34	K	Joback Method
vc	0.652	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	446.19	J/molxK	653.99	Joback Method
cpg	459.15	J/molxK	687.93	Joback Method
cpg	471.38	J/molxK	721.87	Joback Method
cpg	482.88	J/molxK	755.80	Joback Method
cpg	493.66	J/molxK	789.74	Joback Method
cpg	503.70	J/molxK	823.68	Joback Method

cpg	513.01	J/mol×K	857.62	Joback Method
hvapt	81.60	kJ/mol	475.50	NIST Webbook

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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=C33280932&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C33280932&amp;Units=SI</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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>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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