

# 3-Ureidopropionic acid, methyl ester

<b>Other names:</b>	Methyl N-(aminocarbonyl)-«beta»-alaninate
<b>Inchi:</b>	InChI=1S/C5H10N2O3/c1-10-4(8)2-3-7-5(6)9/h2-3H2,1H3,(H3,6,7,9)
<b>InchiKey:</b>	UFAMKVNXXZQVNE-UHFFFAOYSA-N
<b>Formula:</b>	C5H10N2O3
<b>SMILES:</b>	COC(=O)CCNC(N)=O
<b>Mol. weight [g/mol]:</b>	146.14

## Physical Properties

Property code	Value	Unit	Source
gf	-215.78	kJ/mol	Joback Method
hf	-416.65	kJ/mol	Joback Method
hfus	23.39	kJ/mol	Joback Method
hvap	59.70	kJ/mol	Joback Method
log10ws	-0.15		Crippen Method
logp	-0.782		Crippen Method
mvol	110.280	ml/mol	McGowan Method
pc	4333.96	kPa	Joback Method
rinpol	1451.70		NIST Webbook
rinpol	1451.70		NIST Webbook
tb	566.66	K	Joback Method
tc	769.76	K	Joback Method
tf	404.12	K	Joback Method
vc	0.409	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	263.73	J/mol×K	566.66	Joback Method
cpg	272.90	J/mol×K	600.51	Joback Method
cpg	281.61	J/mol×K	634.36	Joback Method
cpg	289.87	J/mol×K	668.21	Joback Method
cpg	297.67	J/mol×K	702.06	Joback Method
cpg	305.02	J/mol×K	735.91	Joback Method
cpg	311.92	J/mol×K	769.76	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=U332977&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U332977&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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