

# «beta»-Alanine, N-acryloyl-, octyl ester

<b>Inchi:</b>	InChI=1S/C14H25NO3/c1-3-5-6-7-8-9-12-18-14(17)10-11-15-13(16)4-2/h4H,2-3,5-12H2,
<b>InchiKey:</b>	QYDKMEPMIQMPBO-UHFFFAOYSA-N
<b>Formula:</b>	C14H25NO3
<b>SMILES:</b>	C=CC(=O)NCCC(=O)OCCCCCCCC
<b>Mol. weight [g/mol]:</b>	255.35

## Physical Properties

Property code	Value	Unit	Source
gf	-118.61	kJ/mol	Joback Method
hf	-510.77	kJ/mol	Joback Method
hfus	40.22	kJ/mol	Joback Method
hvap	68.43	kJ/mol	Joback Method
log10ws	-3.36		Crippen Method
logp	2.582		Crippen Method
mvol	222.810	ml/mol	McGowan Method
pc	1739.01	kPa	Joback Method
rinpol	2002.00		NIST Webbook
rinpol	2002.00		NIST Webbook
tb	696.73	K	Joback Method
tc	877.76	K	Joback Method
tf	420.53	K	Joback Method
vc	0.866	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	628.12	J/mol×K	696.73	Joback Method
cpg	643.14	J/mol×K	726.90	Joback Method
cpg	657.39	J/mol×K	757.07	Joback Method
cpg	670.90	J/mol×K	787.24	Joback Method
cpg	683.68	J/mol×K	817.41	Joback Method
cpg	695.75	J/mol×K	847.58	Joback Method
cpg	707.13	J/mol×K	877.76	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=U321680&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321680&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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