

# Ethyl 3-(benzyl-acetamino)propanoate

<b>Other names:</b>	Alanine, N-(phenylmethyl)-N-acetyl, ethyl ester 3-Benzyl-acetaminopropionic acid ethyl ester N-Benzyl-N-acetyl-3-aminopropionic acid, Ethyl ester Ethyl 3-(acetyl-benzyl-amino)propanoate
<b>Inchi:</b>	InChI=1S/C14H19NO3/c1-3-18-14(17)9-10-15(12(2)16)11-13-7-5-4-6-8-13/h4-8H,3,9-11H
<b>InchiKey:</b>	QCNIWBXYUVRCTE-UHFFFAOYSA-N
<b>Formula:</b>	C14H19NO3
<b>SMILES:</b>	CCOC(=O)CCN(Cc1ccccc1)C(C)=O
<b>Mol. weight [g/mol]:</b>	249.31

## Physical Properties

Property code	Value	Unit	Source
gf	-72.65	kJ/mol	Joback Method
hf	-385.61	kJ/mol	Joback Method
hfus	33.46	kJ/mol	Joback Method
hvap	66.98	kJ/mol	Joback Method
log10ws	-2.49		Crippen Method
logp	1.988		Crippen Method
mcvol	203.350	ml/mol	McGowan Method
pc	2216.62	kPa	Joback Method
rinpol	2016.00		NIST Webbook
tb	689.00	K	Joback Method
tc	893.48	K	Joback Method
tf	428.52	K	Joback Method
vc	0.759	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	553.17	J/molxK	689.00	Joback Method
cpg	568.23	J/molxK	723.08	Joback Method
cpg	582.32	J/molxK	757.16	Joback Method
cpg	595.47	J/molxK	791.24	Joback Method
cpg	607.72	J/molxK	825.32	Joback Method

cpg	619.10	J/mol×K	859.40	Joback Method
cpg	629.65	J/mol×K	893.48	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=U373073&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373073&amp;Units=SI</a>
<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>

## 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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