

# Acetylprocaine

<b>Other names:</b>	2-diethylaminoethyl 4-acetamidobenzoate
<b>Inchi:</b>	InChI=1S/C15H22N2O3/c1-4-17(5-2)10-11-20-15(19)13-6-8-14(9-7-13)16-12(3)18/h6-9H
<b>InchiKey:</b>	YMABTXMPJQRLCQ-UHFFFAOYSA-N
<b>Formula:</b>	C15H22N2O3
<b>SMILES:</b>	CCN(CC)CCOC(=O)c1ccc(NC(C)=O)cc1
<b>Mol. weight [g/mol]:</b>	278.35

## Physical Properties

Property code	Value	Unit	Source
gf	15.53	kJ/mol	Joback Method
hf	-364.25	kJ/mol	Joback Method
hfus	40.76	kJ/mol	Joback Method
hvap	76.30	kJ/mol	Joback Method
log10ws	-1.65		Aqueous Solubility Prediction Method
logp	2.144		Crippen Method
mcvol	227.420	ml/mol	McGowan Method
pc	2025.41	kPa	Joback Method
rinpol	2340.00		NIST Webbook
rinpol	2340.00		NIST Webbook
rinpol	2340.00		NIST Webbook
rinpol	2340.00		NIST Webbook
tb	767.03	K	Joback Method
tc	971.03	K	Joback Method
tf	504.97	K	Joback Method
vc	0.851	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	661.81	J/mol×K	767.03	Joback Method
cpg	676.39	J/mol×K	801.03	Joback Method
cpg	689.99	J/mol×K	835.03	Joback Method
cpg	702.64	J/mol×K	869.03	Joback Method

cpg	714.37	J/mol×K	903.03	Joback Method
cpg	725.21	J/mol×K	937.03	Joback Method
cpg	735.21	J/mol×K	971.03	Joback Method

## 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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</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=U379134&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U379134&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>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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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