

# 1-Benzyl-3-(1,3-dicarbethoxypropyl) urea

<b>Inchi:</b>	InChI=1S/C17H24N2O5/c1-3-23-15(20)11-10-14(16(21)24-4-2)19-17(22)18-12-13-8-6-5
<b>InchiKey:</b>	LUKOKKYTVBMHSU-UHFFFAOYSA-N
<b>Formula:</b>	C17H24N2O5
<b>SMILES:</b>	CCOC(=O)CCC(NC(=O)NCc1ccccc1)C(=O)OCC
<b>Mol. weight [g/mol]:</b>	336.38
<b>CAS:</b>	96977-92-3

## Physical Properties

Property code	Value	Unit	Source
gf	-215.75	kJ/mol	Joback Method
hf	-658.20	kJ/mol	Joback Method
hfus	47.67	kJ/mol	Joback Method
hvap	93.25	kJ/mol	Joback Method
log10ws	-3.51		Crippen Method
logp	1.761		Crippen Method
mcvol	263.040	ml/mol	McGowan Method
pc	1841.99	kPa	Joback Method
tb	921.39	K	Joback Method
tc	1137.29	K	Joback Method
tf	592.34	K	Joback Method
vc	0.998	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	831.37	J/molxK	921.39	Joback Method
cpg	843.46	J/molxK	957.37	Joback Method
cpg	854.34	J/molxK	993.36	Joback Method
cpg	864.05	J/molxK	1029.34	Joback Method
cpg	872.61	J/molxK	1065.32	Joback Method
cpg	880.04	J/molxK	1101.31	Joback Method
cpg	886.38	J/molxK	1137.29	Joback Method

# Sources

<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=C96977923&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C96977923&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

# 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>h vap:</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>m cvol:</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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