

# 1-Benzyl-3-(1-carbethoxy-3-methylbutyl) urea

<b>Inchi:</b>	InChI=1S/C16H24N2O3/c1-4-21-15(19)14(10-12(2)3)18-16(20)17-11-13-8-6-5-7-9-13/h5
<b>InchiKey:</b>	WMHZYIFTZXFFRZ-UHFFFAOYSA-N
<b>Formula:</b>	C16H24N2O3
<b>SMILES:</b>	CCOC(=O)C(CC(C)C)NC(=O)NCc1ccccc1
<b>Mol. weight [g/mol]:</b>	292.37
<b>CAS:</b>	93142-97-3

## Physical Properties

Property code	Value	Unit	Source
gf	7.31	kJ/mol	Joback Method
hf	-398.04	kJ/mol	Joback Method
hfus	38.77	kJ/mol	Joback Method
hvap	81.48	kJ/mol	Joback Method
log10ws	-3.98		Crippen Method
logp	2.464		Crippen Method
mcvol	241.510	ml/mol	McGowan Method
pc	1937.24	kPa	Joback Method
tb	821.78	K	Joback Method
tc	1032.15	K	Joback Method
tf	493.91	K	Joback Method
vc	0.911	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	735.00	J/molxK	821.78	Joback Method
cpg	749.47	J/molxK	856.84	Joback Method
cpg	762.84	J/molxK	891.90	Joback Method
cpg	775.17	J/molxK	926.96	Joback Method
cpg	786.49	J/molxK	962.02	Joback Method
cpg	796.84	J/molxK	997.09	Joback Method
cpg	806.25	J/molxK	1032.15	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=C93142973&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C93142973&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>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>mccvol:</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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