

# 3-(Diocetylamino)-2-benzofuran-1(3h)-one

<b>Inchi:</b>	InChI=1S/C24H39NO2/c1-3-5-7-9-11-15-19-25(20-16-12-10-8-6-4-2)23-21-17-13-14-18-
<b>InchiKey:</b>	WYPQQWBTKVAQN-UHFFFAOYSA-N
<b>Formula:</b>	C24H39NO2
<b>SMILES:</b>	CCCCCCCCN(CCCCCCCC)C1OC(=O)c2ccccc21
<b>Mol. weight [g/mol]:</b>	373.57
<b>CAS:</b>	95817-71-3

## Physical Properties

Property code	Value	Unit	Source
gf	216.80	kJ/mol	Joback Method
hf	-443.00	kJ/mol	Joback Method
hfus	60.21	kJ/mol	Joback Method
hvap	82.67	kJ/mol	Joback Method
log10ws	-7.80		Crippen Method
logp	6.879		Crippen Method
mcvol	331.820	ml/mol	McGowan Method
pc	1073.57	kPa	Joback Method
tb	894.13	K	Joback Method
tc	1099.68	K	Joback Method
tf	544.38	K	Joback Method
vc	1.274	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1116.44	J/molxK	894.13	Joback Method
cpg	1135.77	J/molxK	928.39	Joback Method
cpg	1153.89	J/molxK	962.65	Joback Method
cpg	1170.88	J/molxK	996.90	Joback Method
cpg	1186.81	J/molxK	1031.16	Joback Method
cpg	1201.73	J/molxK	1065.42	Joback Method
cpg	1215.74	J/molxK	1099.68	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=C95817713&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C95817713&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>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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