

# (2-diethylamino-2-oxoethyl) benzoate

<b>Inchi:</b>	InChI=1S/C13H17NO3/c1-3-14(4-2)12(15)10-17-13(16)11-8-6-5-7-9-11/h5-9H,3-4,10H2,
<b>InchiKey:</b>	MTAAAHMQCSJMGHI-UHFFFAOYSA-N
<b>Formula:</b>	C13H17NO3
<b>SMILES:</b>	CCN(CC)C(=O)COC(=O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	235.28

## Physical Properties

Property code	Value	Unit	Source
gf	-81.07	kJ/mol	Joback Method
hf	-364.97	kJ/mol	Joback Method
hfus	30.87	kJ/mol	Joback Method
hvap	64.75	kJ/mol	Joback Method
log10ws	-2.07		Aqueous Solubility Prediction Method
logp	1.712		Crippen Method
mcvol	189.260	ml/mol	McGowan Method
pc	2431.44	kPa	Joback Method
tb	666.12	K	Joback Method
tc	873.37	K	Joback Method
tf	345.65	K	Aqueous Solubility Prediction Method
vc	0.704	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	500.75	J/molxK	666.12	Joback Method
cpg	515.40	J/molxK	700.66	Joback Method
cpg	529.09	J/molxK	735.20	Joback Method
cpg	541.87	J/molxK	769.74	Joback Method
cpg	553.76	J/molxK	804.28	Joback Method
cpg	564.81	J/molxK	838.83	Joback Method
cpg	575.03	J/molxK	873.37	Joback Method

# Sources

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**Aqueous Solubility Prediction Method:**

<http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

# 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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