

# Benzoic acid, 4-[(1,3-dioxobutyl)amino]-

<b>Other names:</b>	p-Carboxyacetanilide
<b>Inchi:</b>	InChI=1S/C11H11NO4/c1-7(13)6-10(14)12-9-4-2-8(3-5-9)11(15)16/h2-5H,6H2,1H3,(H,12)
<b>InchiKey:</b>	NTVPMGIWCMTNMD-UHFFFAOYSA-N
<b>Formula:</b>	C11H11NO4
<b>SMILES:</b>	CC(=O)CC(=O)Nc1ccc(C(=O)O)cc1
<b>Mol. weight [g/mol]:</b>	221.21
<b>CAS:</b>	34376-24-4

## Physical Properties

Property code	Value	Unit	Source
gf	-289.67	kJ/mol	Joback Method
hf	-481.81	kJ/mol	Joback Method
hfus	31.88	kJ/mol	Joback Method
hvap	86.37	kJ/mol	Joback Method
log10ws	-1.85		Crippen Method
logp	1.302		Crippen Method
mcvol	162.650	ml/mol	McGowan Method
pc	3611.55	kPa	Joback Method
tb	786.70	K	Joback Method
tc	998.68	K	Joback Method
tf	515.94	K	Joback Method
vc	0.616	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	443.92	J/molxK	786.70	Joback Method
cpg	452.87	J/molxK	822.03	Joback Method
cpg	461.12	J/molxK	857.36	Joback Method
cpg	468.70	J/molxK	892.69	Joback Method
cpg	475.63	J/molxK	928.02	Joback Method
cpg	481.94	J/molxK	963.35	Joback Method
cpg	487.68	J/molxK	998.68	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=C34376244&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C34376244&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>

# 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>hvp:</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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