## **Betaine**

Other names: (carboxymethyl)trimethylammonium hydroxide inner salt

(trimethylammonio)acetate

1-Carboxy-N,N,N-trimethylmethanaminium hydroxide, inner salt

2-(Trimethylammonio)ethanoic acid, hydroxide, inner salt

Abromine Cystadane

Glycine betaine

Glycine, trimethylbetaine

Glycocoll betaine Glycylbetaine Loramine AMB-13

Lycine

Methanaminium, 1-carboxy-N,N,N-trimethyl-, hydroxide, inner salt

Methanaminium, 1-carboxy-N,N,N-trimethyl-, inner salt

Oxyneurine Rubrine C

Trimethylaminoacetate
Trimethylaminoacetic acid

Trimethylglycine Trimethylglycocoll «alpha»-Earleine

Inchi: InChl=1S/C5H11NO2/c1-6(2,3)4-5(7)8/h4H2,1-3H3

InchiKey: KWIUHFFTVRNATP-UHFFFAOYSA-N

Formula: C5H11NO2

**SMILES:** C[N+](C)(C)CC(=O)[O-]

Mol. weight [g/mol]: 117.15 CAS: 107-43-7

## **Physical Properties**

Property code	Value	Unit	Source
log10ws	-1.24		Crippen Method
logp	-1.557		Crippen Method
mcvol	98.730	ml/mol	McGowan Method

## Sources

Counteracting effects of trimethylamine https://www.doi.org/10.1016/j.tca.2009.02.017

N-oxide and betaine on the https://www.chemeo.com/doc/models/crippen\_log10ws

glycine peptides: Mode of action of betaine on some amino acidos and globular proteins: The hydratiam of the sketch stabilizing agents: Trimethylamine-N-oxide, MyGAW and REIN thethylderivatives

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

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Missing and Methician derivatives
The volumetric and compressibility
នាក់ដូច្នេះ Heat Capacities of Two
Functional lonic Liquids and Two
Punctional lonic Liquids and Two
Pulling and Two
Pul

https://www.doi.org/10.1016/j.jct.2012.05.031

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https://www.doi.org/10.1016/j.tca.2014.03.042 https://www.doi.org/10.1016/j.fluid.2015.07.004

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Solubility and Solution

Thermodynamics of Betaine in

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https://www.doi.org/10.1016/j.fluid.2017.05.001

**Deep Eutectic Solvents:** 

https://www.doi.org/10.1021/acs.jced.7b01037

## Legend

log10ws: Log10 of Water solubility in mol/l logp: Octanol/Water partition coefficient mcvol: McGowan's characteristic volume

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