

Betaine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Betaine

Catalog No.: CFN99546

Cas No.: 107-43-7

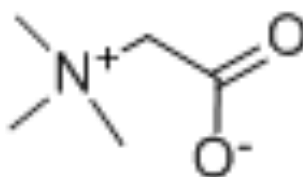
Purity: >=98%

M.F: C₅H₁₁NO₂

M.W: 117.15

Physical Description: Powder

Synonyms: 2-(Trimethylammonio)ethanoic acid hydroxide inner salt; Methanaminium;
(Carboxymethyl)trimethylammonium hydroxide inner salt; Glycine betaine;
Trimethylammonioacetate.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Feed additives;
6. Others.

[Source]

The roots of *Beta vulgaris*.

[Biological Activity or Inhibitors]

Betaine is a safe and well tolerated drug that leads to a significant biochemical and histological improvement in patients with nonalcoholic steatohepatitis (NASH).^[1]

Betaine decreases hyperhomocysteinemia, endoplasmic reticulum stress, and liver injury in alcohol-fed mice.^[2]

Betaine can eliminate the base pair composition dependence of DNA melting. ^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: Acetonitrile- 0.1 M Sodium perchlorate H₂O=35:65 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Abdelmalek M F, Angulo P, Jorgensen R A, *et al. Am. J. Gastroenterol.*, 2001, 96(9): 2711-7.

[2] Ji C, Kaplowitz N. *Gastroenterology*, 2003, 124(5):1488-99.

[3] Rees W A, Yager T D, Korte J, *et al. Biochemistry*, 1993, 32(1):137-44.

[4] Xu M W, Yuan X Z, Liu Y W, *et al. China Journal of Chinese Materia Medica*, 2006, 31(31):462-4.

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