

Thiamine hydrochloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Thiamine hydrochloride

Catalog No.: CFN90068

Cas No.: 67-03-8

Purity: >=99%

M.F: C₁₂H₁₈Cl₂N₄OS

M.W: 337.27

Physical Description: White cryst.

Synonyms:

HCI NH₂ CI⁻ N S

[Intended Use]

- 1. Reference standards;
- 2. Pharmacological research;
- 3. Food research;
- 4. Ingredient in supplements, beverages;
- 5. Synthetic precursor compounds;
- 6. Intermediates & Fine Chemicals;
- 7. Others.

[Source]

The herbs of Saccharum sinense.

[Biological Activity or Inhibitors]

Thiamine hydrochloride is an efficient catalyst for the synthesis of amidoalkyl naphthols.[1]

Thiamine hydrochloride has prophylactic potential on lead induced lipid peroxidation in rat

liver and kidney.[2]

Thiamine hydrochloride, pyridoxine hydrochloride and calcium-d-pantothenate are applied

apple juice concentrates (AJC) at various doses in order to reduce the patulin content. [3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: 0.1% Methanolic hexane sulphonic acid sodium salt- 0.01 M Phosphate

buffer containing 0.1% hexane sulphonic acid sodium salt(adjusted to an apparent pH of

2.7), gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 288 nm.

[Storage]

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

[References]

[1] Lei M, Ma L, Hu L. Cheminform, 2009, 50(46):6393-7.

[2] Senapati S K, Dey S, Dwivedi S K, et al. Vet. Hum. Toxicol., 2000, 42(4):236-7.

[3] Yazici S, Velioglu Y S. Mol. Nutr. Food Res., 2002, 46(4):256-7.

[4] El-Gindy A, El-Yazby F, Mostafa A, et al. J. Pharm. Biomed. Anal., 2004, 35(4):703-13.

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