

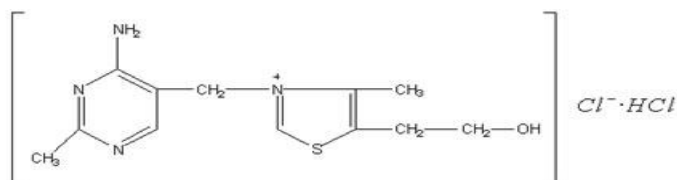
Vitamin B1 Mono

CAS No.: 532-43-4

Molecular Weight: 327.36

Molecular Formula: $C_{12}H_{17}N_5O_4S$

Structural Formula:



Property:

The Melting Point of Vitamin B1 is 196-200°C. Vitamin B1 is a colorless compound which is white or almost white crystalline powder or small colourless crystals. Its structure contains a pyrimidine ring and a thiazole ring linked by a methylene bridge. Vitamin B1 is soluble in water, methanol and glycerol, and practically insoluble in acetone, ether, chloroform, and benzene. Vitamin B1 is stable at acidic pH, but is unstable in alkaline solutions. Vitamin B1 is unstable to heat, but stable during frozen storage. Vitamin B1 is unstable when exposed to ultraviolet light and gamma irradiation. Vitamin B1 reacts strongly in Maillard-type reactions.

Specification:

Identification:	Positive
Assay	98.0%-101.0%
Appearance of Solution	Clear and not more than Y7
PH:	6.8-7.6
Loss on Drying	1.0% max.
Sulphated Ash/Residue on Ignition	0.1% max.
Heavy Metals	20PPM max.

Usage:

Maintain normal sugar metabolize and nerve conduct, cure illnesses caused by lack of B1, like beriberi, edema, neuritis, neuralgia, dyspepsia, anorexia, slow growth etc.. Extensively Vitamin B1 is used in pharmaceuticals, food additive and feed additive.

Packing:

Vitamin B1 is packed in Carton./cardboard barrel, with PE bag, net weight 25KG

Shelf life:

keep sealed and avoid light. 1 year in original packages under the described conditions.

Keyword:

Vitamin B1 mononitrate, vitamin B1 mono