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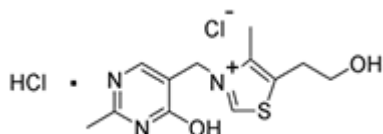
Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

Product Specifications



Catalogue Number 09663

Product

Oxvthiamine • HCl

5-[2-Hydroxyethyl]-3-[4-hydroxy-2-methyl-5-pyrimidinylmethyl]-4-

CAS Number

136-16-3, 614-05-1

Molecular Formula

C₁₂H₁₅N₃O₂S • HCl

Molecular Weight

301.8

Appearance

White solid

Solubility

Clear, colorless solution (50 mg/ml in methanol) (After 10 min in ultrasonic bath)

Elemental Analysis
(Theory)

C = 41.6 ± 0.5%, H = 5.2 ± 0.5%, N = 12.1 ± 0.5%
calc. as 0.45 H₂O (2.3% H₂O)

Water Content (Karl
Fisher)

≤ 3%

TLC System

n-butanol/Acetic acid/Water : 4:2:2
Ethylacetate/Pyridine/Acetic acid/Water : 60:60:12:36
Methanol/Chloroform/Ammonia 17% : 2:2:1
Plate : Silicagel 60 P₂₅₄
Detected by : UV, ninhydrin, TMB

Titration

~ 20% (chloride content)

Assay

≥ 96% (Nth : 12.42%, Elemental Analysis)

Purity by TLC

≥ 95%

Storage

Store at 0 - 8 °C

For Laboratory Use Only