
Product Data Sheet

Product Name: Methyl Blue

Cat. No.: GC39268

Chemical Properties

Cas. No. 28983-56-4

SMILES O=S(C1=CC=CC=C1/N=C2C=C/C(C=C\2)=C(C3=CC=C(NC4=CC=CC=C4S(=O)(O)=O)C=C3)\C5=CC=C(NC6=CC=CC=C6S(=O)([O-])=O)C=C5)([O-])=O.[Na+].[Na+]

Formula C₃₇H₂₇N₃Na₂O₉S₃

M.Wt 799.8

Solubility H₂O : 20 mg/mL (25.01 mM; Need ultrasonic)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Methyl blue belongs to the group of triaminotriphenylmethane dyes. Methyl blue is widely used as antiseptic dye in polychrome staining method and has applications in histological and microbiological staining solutions. Methyl blue has been used as a model to study the effect of various catalysts on photodegradation of dyes[1][2].

[1]. Mohammed Hassan, et al. Micellar effect on the kinetics of oxidation of methyl blue by Ce(IV) in sulfuric acid medium. Arabian Journal of Chemistry. Volume 8, Issue 1, January 2015, Pages 72-77. [2]. K.Kotak, et al. Photostability of Aniline Blue (CI 42755) and Methyl Blue (CI 42780). Dyes and Pigments. Volume 34, Issue 2, June 1997, Pages 159-167.

Caution: Product has not been fully validated for medical applications. For research use only.

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