

## Trometamol

## Chemical Properties

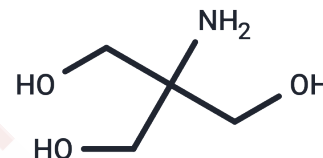
CAS No. : 77-86-1

Formula: C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>

Molecular Weight: 121.14

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

Description	Trometamol (Tromethamine) is a proton acceptor used to treat acidemia. It inhibits both isoforms of cyclooxygenases (COX1 and COX2), thereby blocking the conversion of arachidonic acid to pro-inflammatory pro-prostaglandins.
Targets(IC50)	COX
In vivo	The drug is rapidly eliminated by the kidney; 75% or more appears in the urine after eight hours. Urinary excretion continues over a period of three days. The maximum daily dose is 15 mmol/kg for an adult. In large doses, trometamol may induce respiratory depression and hypoglycemia. [1]

## Solubility Information

Solubility	DMSO: 60 mg/mL (495.29 mM), Sonication is recommended. H <sub>2</sub> O: 198.1 mM, Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.2549 mL	41.2746 mL	82.5491 mL
5 mM	1.651 mL	8.2549 mL	16.5098 mL
10 mM	0.8255 mL	4.1275 mL	8.2549 mL
50 mM	0.1651 mL	0.8255 mL	1.651 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

## Reference

Holmdahl MH, et al. Acta Anaesthesiol Scand, 2000, 44(5), 524-527.

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Tel:781-999-4286    E\_mail:info@targetmol.com    Address:36 Washington Street,Wellesley Hills,MA 02481