Product Data Sheet

Product Name: Trometamol acetate
Cat. No.: GC66495

Chemical Properties

Cas. No.	6850-28-8		
Formula	$C_6H_{15}NO_5$	M.Wt	181.19
Solubility	DMSO : 100 mg/mL (551.91 mM; Need ultrasonic)	Storage	4°C, away from moisture and light
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Trometamol acetate		

Background

Trometamol(Tromethamine) is a proton acceptor used to treat acidemia.

Trometamol is a proton acceptor that generates NH3 +/HCO3 - without generating CO2, and the protonated R-NH3 + is eliminated by the kidneys. Trometamol is the buffer of choice in the situation where CO2 elimination is impaired (in which case NaHCO3 cannot correct acidemia), and to avoid a Na+ load. Even during short intervals of apneic oxygenation when CO2 elimination is curtailed, trometamol, but not bicarbonate, will maintain a normal arterial pH. Trometamol also acts as an osmotic diuretic, increasing urine flow, urinary pH, and excretion of fixed acids, carbon dioxide and electrolytes. A significant fraction of trometamol is not ionized and therefore is capable of reaching equilibrium in total body water. This portion may penetrate cells and may neutralize acidic ions of the intracellular fluid. [1]

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]

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

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