

Methylene Blue (Methylthioninium chloride)

Form & Storage	50mg/10mL (5mg/mL)	Store at room temperature in outer box for light protection.
Reconstitution	Already in solution Draw up using a 5 micron filter needle	
Compatibility & Stability	Glucose 5% only	
Administration	<p>IV bolus Inject slowly over a minimum of 5 mins Methylthioninium chloride is hypotonic; dilution in 50mL Glucose 5% may help to avoid local pain.</p> <p>A second dose can be given after 1 hour if needed. Seek advice from National Poisons Information Centre (01 8092566)</p> <p>IV infusion (preferred) Dilute in 50mL Glucose 5% and administer via infusion pump over 5-15 mins</p>	
Monitoring	ECG, vital signs (e.g. blood pressure), oxygen saturation, methaemoglobin concentration, signs and symptoms of serotonin syndrome if administered to patients on serotonergic drugs.	
Extravasation	Methylthioninium chloride (methylene blue) has a low pH and may cause venous irritation and tissue damage in cases of extravasation	
Additional Information	<ul style="list-style-type: none"> Urine and stools may turn a blue-green colour; and skin may possibly turn a blue colour when treated with Methylthionium chloride. This discolouration is expected and will disappear after the treatment has ended Lower single dose in moderate to severe renal disease Licensed for acute symptomatic treatment of medicinal and chemical products-induced methaemoglobinæmia See Toxbase (username/password required, available Resusc room ED) 177-Ifosfamide-induced encephalopathy eviQ (unlicensed indication) <p>I.1.1.1.1.1 Methylene blue is kept as stock in General Theatres & Cardiac Theatres for use under the direction of a consultant anaesthetist (use in Vasoplegia syndrome associated with cardiac surgery is unlicensed)</p>	

Information provided relates to Methylthioninium chloride (Provepharm)
Last updated 9/12/25

*This information has been summarised to act as a guide for those administering IV medication. The monograph should be used in conjunction with the drug data sheet and BNF for information on dose, adverse effects, cautions and contra-indications.
 Further information is available from Pharmacy on 22146 or 22542*