

## Methylene Blue (Methylthioninium chloride)

<b>Form &amp; Storage</b>	50mg/10mL (5mg/mL)	Store at room temperature in outer box for light protection.
<b>Reconstitution</b>	Already in solution Draw up using a 5 micron filter needle	
<b>Compatibility &amp; Stability</b>	Glucose 5% only	
<b>Administration</b>	<b>IV bolus</b>	
	Inject slowly over a minimum of 5 mins Methylthioninium chloride is hypotonic; dilution in 50mL Glucose 5% may help to avoid local pain.  A second dose can be given after 1 hour if needed. Seek advice from <b>National Poisons Information Centre</b> (01 8092566)	
	<b>IV infusion (preferred)</b>	
	Dilute in 50mL Glucose 5% and administer via infusion pump over 5-15 mins	
<b>Monitoring</b>	ECG, vital signs (e.g. blood pressure), oxygen saturation, methaemoglobin concentration, signs and symptoms of serotonin syndrome if administered to patients on serotonergic drugs.	
<b>Extravasation</b>	Methylthioninium chloride (methylene blue) has a low pH and may cause venous irritation and tissue damage in cases of extravasation	
<b>Additional Information</b>	<ul style="list-style-type: none"> <li>Urine and stools may turn a <b>blue-green colour</b>; and skin may possibly turn a blue colour when treated with Methylthioninium chloride. This discolouration is expected and will disappear after the treatment has ended</li> <li>Lower single dose in moderate to severe <b>renal disease</b></li> <li>Licensed for acute symptomatic treatment of medicinal and chemical products-induced methaemoglobinaemia</li> <li>See <a href="#">Toxbase</a> (username/password required, available Resusc room ED)</li> <li><a href="#">177-Ifosfamide-induced encephalopathy   eviQ</a> (unlicensed indication)</li> </ul> <p>I.1.1.1.1.1.1 Methylene blue is kept as stock in General Theatres &amp; 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*