

## neoFroxx GmbH

Marie-Curie-Str. 3  
D-64683 Einhausen

+49 (6251) 989 24-0  
coa@neofroxx.com  
www.neofroxx.com

## Specification

<b>Product</b>	<b>Methylene blue (C.I. 52015) pure USP (pharma grade)</b>
----------------	--

Product number	LC-8718 (revised)
Synonym(s)	Methylthioninium chloride
Formula	C <sub>16</sub> H <sub>18</sub> ClN <sub>3</sub> S x H <sub>2</sub> O
Molecular weight	319.86 g/mol (anhydrous)
CAS number	122965-43-9 (revised)
Storage	below 25°C
Retest period (months)	60

We herewith confirm that this product meets the requirements of the US Pharmacopoeia (USP).

Parameter	Specification
Assay (titr., calc. on dried basis)	97.0 - 103.0 %
Identification	passes test
A 1%, 1 cm, $\lambda_{\max}$	> 2200
$\lambda_{\max}$ in water	663 - 667 nm
Residue on ignition	max. 0.15 %
Loss on drying (105°C)	8.0 - 22.0 %
As	max. 0.0008 %
Cu	max. 0.02 %
Zn	max. 0.01 %
Fe	max. 0.05 %
Pb	max. 0.002 %
Organic impurities	max. 0.05 %
Microbial load	passes test

Einhausen, 28.07.2023 (revised)