


Specification

Concerning Product:	
Article number	61734MEP
Trade name / designation / denomination	Methylene Blue, PhEur.
CAS number	61-73-4
Other names / synonyms	•[7-(dimethylamino)-3-phenothiazinylidene]-dimethylammonium chloride; •methylthioninium chloride;
EC number	200-515-2
Customs tariff number / CN code / TARIC	32041300
Molecular weight [g / mol]	319,86
Formula	C ₁₆ H ₁₈ CIN ₃ S
Warning 	
Harmful if swallowed. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.	

Parameter	Specification	Unit
Organoleptic test		
Appearance	dark blue or dark green crystalline powder with a metallic sheen, hygroscopic	
Physical parameter		
Loss on drying	8.0 – 24,0	%
Identity		
Assay	93,0 – 102,0	%
Identification	A: UV: Absorption maxima at 255-260 nm, 285-290 nm, 670-680 nm and 740-750 nm	
Identification	B: TLC : Meets the requirements	
Identification	C: Chlorides: Meets the requirements	
Impurities		
Residual solvents	Ethyl acetate: ≤ 5000	ppm
Sulphated ash	≤ 0,25	%

Related substances	Impurity A: $\leq 5,0$	% [w/w]
Related substances	Total of impurities $\leq 0,5$	% [w/w]
Related substances	Unspecified impurities $\leq 0,10$	% [w/w]
Elemental Impurities		
Aluminium (Al)	≤ 100	ppm
Cadmium (Cd)	≤ 1	ppm
Chromium (Cr)	≤ 100	ppm
Copper (Cu)	≤ 300	ppm
Iron (Fe)	≤ 200	ppm
Mercury (Hg)	≤ 1	ppm
Manganese (Mn)	≤ 10	ppm
Molybdenum (Mo)	≤ 10	ppm
Nickel (Ni)	≤ 10	ppm
Lead (Pb)	≤ 10	ppm
Tin (Sn)	≤ 10	ppm
Zinc (Zn)	≤ 100	ppm
Organic volatile impurities		
Benzene	≤ 2	ppm
Methanol	≤ 3000	
Toluene	≤ 890	ppm
Microbiological data		
Total Plate Count	≤ 100	CFU/g
Yeast and Mould	≤ 100	CFU/g

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 13. Aug. 2019

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