



CERTIFICATE OF ANALYSIS

Product	Manganese Chloride Tetrahydrate
Grade	ACS
Product Code	MB0331(C4930)
Formula	MnCl ₂ ·4H ₂ O
MW	197.90
CAS#	13446-34-9
Lot No	

Test Items	Specifications	Results
Assay	98.0-101.0%	
PH of 5% solution at 25oC	3.5-6.0	
Insoluble matter	≤0.005%	
Sulfate(SO ₄)	≤0.01%	
Heavy Metals (as Pb)	≤5ppm	
Calcium(Ca)	≤0.005%	
Magnesium (Mg)	≤0.005%	
Iron(Fe)	≤5ppm	
Potassium(K)	≤0.01%	
Sodium(Na)	≤0.05%	
Zinc(Zn)	≤0.005%	

Storage: RT. Protect from moisture