

...Pure Quality

Certificate of Analysis

Product: Manganese Chloride Tetrahydrate ACS/USP/FCC

Cat: CP-A1640D/CP-B1640D

Lot: KF02715 CAS: 13446-34-9 Molecular Formula: MnCl₂·4H₂O Molecular Weight: 197.91

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Manufacture Date: 6/6/15
Retest Date: 6/5/20

Specification

	SP		
<u>Test</u>	Min.	Max.	Result
Appearance	Pink, slightly deliquescent		Complies
Assay (on dried basis)	98.0%	101.0%	100.3%
Identification	To pass test		Passes
Loss on drying (3 hrs. @ 105°C)	36.0%	38.5%	36.34%
pH (5% solution in H2O)	4.0	6.0	5.46
Insoluble Matter		0.005%	0.003%
Substances not ppt'd by Ammonium Sulfide		0.2%	0.16%
Sulfate		0.005%	0.003%
Calcium		0.005%	0.0002%
Magnesium		0.005%	0.0045%
Potassium		0.01%	0.0007%
Sodium		0.05%	0.0002%
Zinc		0.005%	0.0001%
Zinc		No turbidity	Passes
Heavy metals		5ppm	< 5ppm
Iron		5ppm	< 5ppm
Lead		4mg/kg	1mg/kg

Quality Control Approval

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