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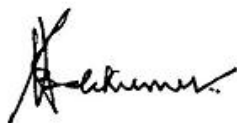
Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	30609
Product	Manganese (II) chloride dihydrate
Lot Number	002154-2017-077 Manganese dichloride dihydrate
CAS Number	20603-88-7
Molecular Formula	MnCl ₂ •2H ₂ O
Molecular Weight	161.87

Appearance	Rose color crystalline powder
Anion	Sulphate (SO ₄): < 0.002%
Cation	Calcium (Ca): 0.00089% Copper (Cu): 0.00019% Iron (Fe): 0.00012% Potassium (K): 0.00048% Magnesium (Mg): 0.0037% Sodium (Na): 0.00068% Nickel (Ni): 0.0004% Lead (Pb): 0.000097% Zinc (Zn): 0.0005%
Reducing Substances	< 0.0005% (KMnO ₄)
Assay	99.67%
Storage	Store at 5°C - 30°C
Remarks	See material safety data sheet for additional information For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager