

Certificate of Analysis

Product

45757 - Manganese (II) Carbonate pure, Mn content

42-46% - [598-62-9]

Batch No Analysis Date Date of Manufacture Expiry Date/Re-Test Date

05-Feb-2024 February 2024 February 2029

7419482

Molecular Formula Molecular Weight MnCO3 114.95

| Test Parameters | Standards | Actual Results |
|------------------------------------|--------------------|--------------------|
| Appearance (Colour) | Pinkish brown | Pinkish brown |
| Appearance (Form) | Crystalline powder | Crystalline powder |
| Solubility (Turbidity) 5% solution | Clear | Clear |
| in 5N HCI | | |
| Chloride (CI) | max. 0.005% | Passes |
| Sulphate (SO4) | max. 0.1% | Passes |
| Iron (Fe) | max. 0.01% | Passes |
| Manganese (Mn) | 42 - 46% | 43.7% |
| Acid insoluble matter | max. 0.05% | 0.002% |

FRM/82/11/4/45757 Rev No. 1 Date 01/11/2015

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