

**NAME AND CODE**

**Manganese Gluconate Dihydrate USP/FCC Low HM Fine Granular**

Code: 2598

**CHEMICAL FORMULA**

$MnC_{12}H_{22}O_{14} \cdot 2H_2O$  Mol. Wt. Dihydrate 481.27

**CAS NUMBER**

6485-39-8

**USE**

Nutrient; Dietary Supplement

**DESCRIPTION**

pink fine granules

**CHEMICAL SPECIFICATION**

| TESTS                         | SPECIFICATIONS         |
|-------------------------------|------------------------|
| Assay (on a dry basis)        | 98.0 - 102.0%          |
| Heavy Metals                  | 0.002% maximum         |
| Lead (Pb)                     | 1 ppm maximum          |
| Arsenic (As)                  | 1 ppm maximum          |
| Cadmium (Cd)                  | 1 ppm maximum          |
| Mercury (Hg)                  | 0.1 ppm maximum        |
| Reducing Substances           | 1.0% maximum           |
| Identification                |                        |
| Test A                        | Passes test            |
| Test B                        | Passes test            |
| Water                         | 6.0 - 9.0% (dihydrate) |
| Chloride                      | 0.05% maximum          |
| Sulfate                       | 0.2% maximum           |
| Residual Solvents             | Meets requirements     |
| <u>Microbial Test Results</u> |                        |
| Aerobic Plate Count           | 1000 cfu/gm maximum    |
| Yeast and Mold Count          | 100 cfu/gm maximum     |
| Total Coliforms               | Negative               |

**MANGANESE CONTENT**

Dihydrate basis 11.0-11.9%

**CONTAINERS**

50 kg. / 110 lb. fiber drums; 25 kilogram packs EU only

**STORAGE**

Store in a clean, dry warehouse in the original unopened containers.

**REGULATORY**

This substance has not been found on the TSCA inventory. This substance is manufactured for use only as a dietary supplement.

**REVISION DATE**

11/19/09