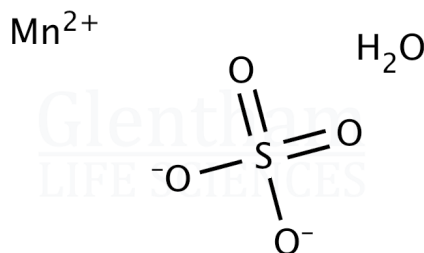


## Product Specification

|                    |                                                  |
|--------------------|--------------------------------------------------|
| Product Name       | Manganese(II) sulfate monohydrate, EP, USP grade |
| Glentham Code      | GK2450                                           |
| CAS Number         | 10034-96-5                                       |
| EINECS             | 232-089-9                                        |
| Numéro MDL         | MFCD00149159                                     |
| CAS supplémentaire | 7785-87-7 (anhydr.)                              |
| PubChem SID        | 310276015                                        |
| Molecular Weight   | 169.02                                           |
| Molecular Formula  | $\text{MnSO}_4 \cdot \text{H}_2\text{O}$         |
| Storage Temp.      | +20°C                                            |



| Property                                 | Specification                   |
|------------------------------------------|---------------------------------|
| Physical Description                     | Pale pink crystalline powder    |
| Identification                           | To pass EP, USP tests           |
| Appearance of Solution                   | To pass EP test                 |
| Loss on Ignition                         | 10.0 - 12.0 %                   |
| Heavy Metals                             | ≤ 20ppm                         |
| Chlorides                                | ≤ 100ppm                        |
| Iron (Fe)                                | ≤ 10ppm                         |
| Zinc (Zn)                                | ≤ 50ppm                         |
| Substances not ppt. by ammonium sulphide | ≤ 0.5%                          |
| Manganese (Mn)                           | 36.0 - 36.8 % (anhydrous basis) |
|                                          | 32.2 - 32.8 % (as-is)           |
| Assay                                    | 99.0 - 101.0 %                  |
| Pharmacopoeia Specification(s)           | EP, USP                         |

|                       |              |
|-----------------------|--------------|
| Specification Version | - v1.1       |
| Date Created          | - 2015-07-24 |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check [www.glentham.com](http://www.glentham.com) or contact us using the details above for the current version of this document.

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