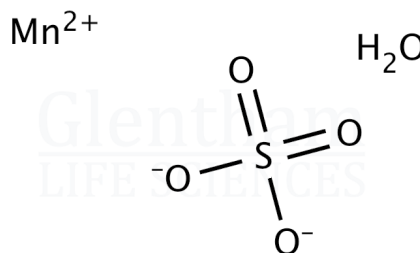


## Product Specification

|                   |  |
|-------------------|--|
| Product Name      | Manganese(II) sulfate monohydrate, EP, USP grade |
| Glentham Code     | GK2450   |
| CAS Number        | 10034-96-5                                       |
| EINECS            | 232-089-9  |
| MDL Number        | MFCD00149159                                     |
| Additional CAS    | 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)<br>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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