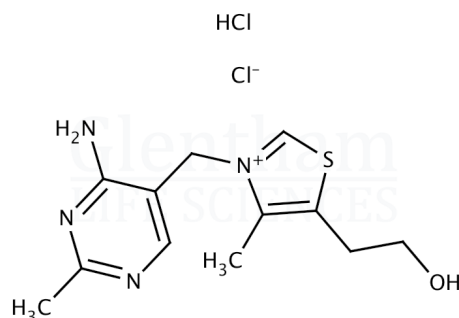


## Product Specification

|                    |                                        |
|--------------------|----------------------------------------|
| Product Name       | Thiamine hydrochloride, Ph. Eur. grade |
| Glentham Code      | GP0613                                 |
| CAS Number         | 67-03-8                                |
| EINECS             | 200-641-8                              |
| Numéro MDL         | MFCD00012780                           |
| PubChem SID        | 310280851                              |
| CAS supplémentaire | 59-43-8                                |
| Molecular Weight   | 337.28                                 |
| Molecular Formula  | $C_{12}H_{17}ClN_4OS \cdot HCl$        |
| Storage Temp.      | +4°C                                   |



| Property                       | Specification                                  |
|--------------------------------|------------------------------------------------|
| Physical Description           | White to almost white crystalline powder       |
| Identification                 | To conform to tests A, B, C                    |
| Solubility (5% in water)       | Clear, colourless solution ( $\leq$ Y7 or GY7) |
| pH (2.5% in water)             | 2.7 - 3.3                                      |
| Sulphates                      | $\leq$ 300ppm                                  |
| Impurity A                     | $\leq$ 0.15%                                   |
| Impurity B                     | $\leq$ 0.3%                                    |
| Impurity C                     | $\leq$ 0.15%                                   |
| Any Unspecified Impurity       | $\leq$ 0.1%                                    |
| Total Impurities               | $\leq$ 0.5%                                    |
| Heavy Metals                   | $\leq$ 20ppm                                   |
| Sulphated Ash                  | $\leq$ 0.1%                                    |
| Water                          | $\leq$ 5.0%                                    |
| Assay                          | 99.0 - 101.0 % (anhydrous basis)               |
| Pharmacopoeia Specification(s) | Ph. Eur.                                       |

|                       |              |
|-----------------------|--------------|
| Specification Version | - v1.2       |
| Date Created          | - 2021-07-20 |

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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