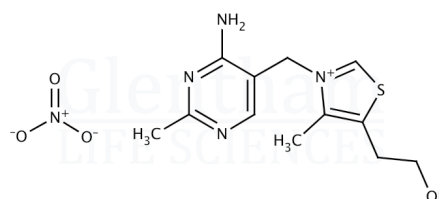


## Product Specification

|                   |                                      |
|-------------------|--------------------------------------|
| Product Name      | Thiamine nitrate, BP, Ph. Eur. grade |
| Glentham Code     | GV2491                               |
| CAS Number        | 532-43-4                             |
| EINECS            | 208-537-4                            |
| MDL-Nummer        | MFCD00036330                         |
| Molecular Weight  | 327.36                               |
| Molecular Formula | $C_{12}H_{17}N_5O_4S$                |
| Storage Temp.     | +20°C                                |



| Property                       | Specification   |
|--------------------------------|---|
| Physical Description           | Colourless crystals or white to almost white crystalline powder |
| Identification (IR)            | To conform to standard  |
| Identification                 | B, C according to EP  |
| Solubility (2% in water)       | Clear solution, colour ≤ Y7                                     |
| pH (2% in water)               | 6.8 - 7.6   |
| Impurity A (HPLC)              | ≤ 0.15%   |
| Impurity B (HPLC)              | ≤ 0.6%  |
| Impurity C (HPLC)              | ≤ 0.4%  |
| Any Individual Impurity (HPLC) | ≤ 0.1%  |
| Total Impurities (HPLC)        | ≤ 1.0%  |
| Heavy Metals                   | ≤ 20ppm   |
| Sulphated Ash                  | ≤ 0.1%  |
| Loss on Drying                 | ≤ 1.0%  |
| Assay                          | 98.0 - 101.0 % (dried substance)                                |
| Pharmacopoeia Specification(s) | BP, Ph. Eur.  |

|                       |              |
|-----------------------|--------------|
| Specification Version | - v1.0       |
| Date Created          | - 2018-10-05 |

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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