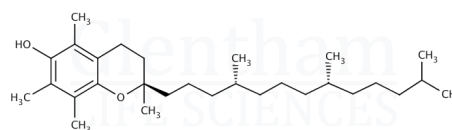


Product Specification

| | |
|----------------|---------------------|
| Product Name | DL-alpha-Tocopherol |
| Glentham Code | GP5981 |
| CAS Number | 10191-41-0 |
| EINECS | 233-466-0 |
| MDL Number | MFCD00006848 |
| Additional CAS | 2074-53-5 |
| Additional CAS | 1406-18-4 |
| PubChem SID | 310272467 |



| | |
|-------------------|-------------------|
| Molecular Weight | 430.72 |
| Molecular Formula | $C_{29}H_{50}O_2$ |
| Storage Temp. | +4°C |

| Property | Specification |
|--------------------------------|--|
| Physical Description | Pale yellow to brown, clear viscous liquid |
| Identification | According to EP, USP |
| Specific Optical Rotation | -0.01 - +0.01 ° |
| Sulphated Ash | ≤ 0.1% |
| Acidity | ≤ 1.0ml |
| Heavy Metals (as Pb) | ≤ 10ppm |
| Lead (Pb) | ≤ 2ppm |
| Arsenic (As) | ≤ 1ppm |
| Cadmium (Cd) | ≤ 1ppm |
| Mercury (Hg) | ≤ 0.1ppm |
| Zinc (Zn) | ≤ 10ppm |
| Related Substances | Impurity A: ≤ 1.0% |
| | Impurity B: ≤ 1.5% |
| | Impurity C & D: ≤ 1.0% |
| | Any Other Impurity: ≤ 0.25% |
| | Total Impurities: ≤ 2.5% |
| Assay | 96.0 - 102.0 % (USP) |
| Assay | 96.0 - 102.0 % (EP) |
| Pharmacopoeia Specification(s) | EP, USP |

| | | |
|-----------------------|---|------------|
| Specification Version | - | v1.0 |
| Date Created | - | 2014-03-20 |

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 or contact us using the details above for the current version of this document.

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