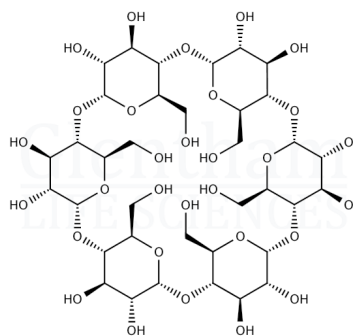


## Product Specification

|               |                    |
|---------------|--------------------|
| Product Name  | alpha-Cyclodextrin |
| Glentham Code | GC6443             |
| CAS Number    | 10016-20-3         |
| EINECS        | 233-007-4          |
| MDL-Nummer    | MFCD00078207       |
| PubChem SID   | 310270644          |

|                   |                                  |
|-------------------|----------------------------------|
| Molecular Weight  | 972.86                           |
| Molecular Formula | $C_{36}H_{60}O_{30} \cdot xH_2O$ |
| Storage Temp.     | +20°C                            |



| Property                                        | Specification              |
|-------------------------------------------------|----------------------------|
| Physical Description                            | White powder               |
| Solubility (1% in water)                        | Clear, colourless solution |
| Specific Optical Rotation ( $[\alpha]_{25/D}$ ) | +145 - +151 ° (c=1, water) |
| Lead (Pb)                                       | ≤ 0.5ppm                   |
| Arsenic (As)                                    | ≤ 2ppm                     |
| Heavy Metals                                    | ≤ 5ppm                     |
| Residue on Ignition                             | ≤ 0.1%                     |
| Loss on Drying                                  | ≤ 16.0%                    |
| Purity (HPLC)                                   | ≥ 98%                      |

|                       |   |            |
|-----------------------|---|------------|
| Specification Version | - | v1.1       |
| Date Created          | - | 2017-03-29 |

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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