

## Product Datasheet

### GP5053 - Chitosan (1000 - 2000 cps);

### high molecular weight

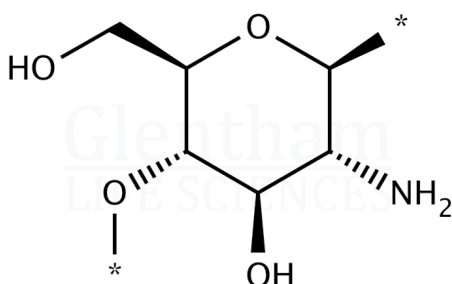
#### Product Details

Product Name	Chitosan (1000 - 2000 cps); high molecular weight
Glenthams Code	GP5053
CAS Number	9012-76-4
EINECS	618-480-0
MDL Number	MFCD00161512
Related Categories	APIs, Carbohydrates, Biochemicals, Natural Products, Polysaccharides, Oligosaccharides, Chitin & Chitosan, Cosmetic Raw Materials

#### Structure

Molecular Weight : 1,500,000 (avg.)

Molecular Formula :  $[C_6H_{11}NO_4]_n$



#### Storage

Recommended storage temperature: +20°C.

#### Hazards and Transport

Not classified as hazardous under CLP.

Not classified as dangerous for transport.

### Glenthams Product Specification

Physical Description	: White to light-tan, or light-yellow powder
Degree of Deacetylation	: $\geq 90.0\%$
Ash	: $\leq 1.0\%$
Viscosity	: 1000 - 2000 cps (1% in 1% acetic acid, 20°C)
Water	: $\leq 8.0\%$
Solubility (in acetic acid)	: $\geq 99\%$
pH	: 6.0 - 8.0 (1%, 20°C)
Arsenic (As)	: $\leq 1\text{ppm}$
Lead (Pb)	: $\leq 0.5\text{ppm}$
Mercury (Hg)	: $\leq 0.2\text{ppm}$
Cadmium (Cd)	: $\leq 1\text{ppm}$
Particle Size	: $\leq 100$ mesh
Microbiological Counts	: E. coli, S. Aureus, Coliforms: $\leq 3\text{MPN/g}$ (each) : Salmonella spp.: Not detected in 25g
Total Yeast and Mould Count	: $\leq 100\text{CFU/g}$
Total Plate Count	: $\leq 1000\text{CFU/g}$
Version	: v1.2

### About Chitosan (1000 - 2000 cps); high molecular weight

Chitosan is a polysaccharide comprised of linked D-glucosamine and N-acetyl-D-glucosamine units. It is produced by the deacetylation of chitin, a naturally occurring polysaccharide. Chitosan is commercially used in agriculture as a biopesticide but has potential applications in the biomedical field due to its antibacterial properties. This product is derived from shrimp shell.

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