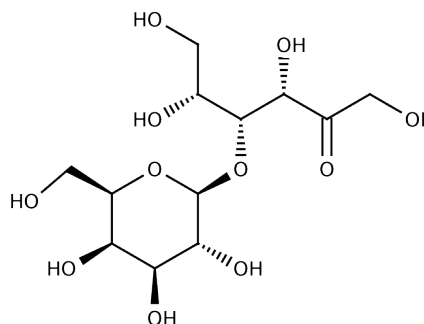


## Product Specification

Product Name : Lactulose, Ph. Eur. grade  
 Glentham Code : GC1952  
 CAS Number : 4618-18-2  
 EINECS : 225-027-7  
 MDL Number : MFCD00151469  
 PubChem SID : 310275685

Molecular Weight : 324.30  
 Molecular Formula : C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>  
 Storage Temp. : +20°C



Property	Specification
Physical Description	White to almost white crystalline powder
Identification	According to Ph. Eur.
Solubility	Freely soluble in water, sparingly soluble in methanol, practically insoluble in toluene
Solubility (6% in water)	Clear, colourless solution
pH	3.0 - 7.0
Specific Optical Rotation	-50.0 - -46.0 °
Impurity C	≤ 2.0% (lactose)
Any Other Individual Impurity	≤ 0.5%
Total Impurities	≤ 3.0%
Methanol	≤ 50ppm
Boron (B)	≤ 9ppm
Lead (Pb)	≤ 0.5ppm
Water	≤ 2.5%
Sulphated Ash	≤ 0.1%
Total Aerobic Microbial Count	≤ 100CFU/g
E. Coli	Absent
Assay (HPLC)	98.0 - 102.0 % (anhydrous basis)
Pharmacopoeia Specification(s)	Ph. Eur.

Specification Version : v1.0  
 Date Created : 2014-11-25

## Product Specification

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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