

Product Datasheet

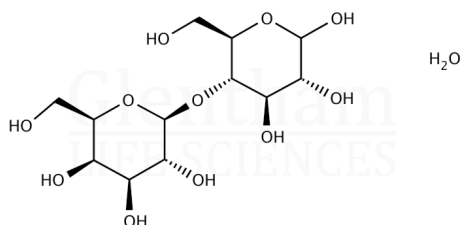
GC9081 - D(+)-Lactose monohydrate, 99.5%, Ph. Eur. grade

Product Details

Product Name	D(+)-Lactose monohydrate, 99.5%, Ph. Eur. grade
Glentham Code	GC9081
CAS Number	64044-51-5
EINECS	200-559-2
MDL-Nummer	MFCD00166994
Zusätzliche CAS	10039-26-6
Zusätzliche CAS	14641-93-1
Zusätzliche CAS	5989-81-1
Zusätzliche CAS	63-42-3 (anhydrous)
Related Categories	Carbohydrates, Core Carbohydrates, Biochemicals, Raw Materials (IVD), Oligosaccharides

Structure

Molecular Weight : 360.32
Molecular Formula : $C_{12}H_{22}O_{11} \cdot H_2O$



Storage

Recommended storage temperature: +20°C.

Hazards and Transport

Not classified as hazardous under CLP.
Not classified as dangerous for transport.

Glentham Product Specification

Physical Description	: White or almost white crystalline powder
Identification	: A, B, C, D according to Ph. Eur.
Solubility (10% in water)	: Clear, colourless solution
Acidity or Alkalinity	: $\leq 0.4\text{ml}$ (0.1M NaOH required)
Absorbance	: 10% in water at 400nm: ≤ 0.04 : 1% in water at 270 - 300nm: ≤ 0.07 : 1% in water at 210 - 220nm: ≤ 0.25
Specific Optical Rotation	: $+54.4 - +55.9^\circ$ (anhydrous substance)
Heavy Metals	: $\leq 5\text{ppm}$
Water	: 4.5 - 5.5 %
Sulphated Ash	: $\leq 0.1\%$
Arsenic (As)	: $\leq 0.5\text{ppm}$
Lead (Pb)	: $\leq 0.01\text{ppm}$
Cadmium (Cd)	: $\leq 0.1\text{ppm}$
Mercury (Hg)	: $\leq 0.01\text{ppm}$
Cobalt (Co)	: $\leq 1\text{ppm}$
Vanadium (V)	: $\leq 1\text{ppm}$
Nickel (Ni)	: $\leq 1\text{ppm}$
Lithium (Li)	: $\leq 1\text{ppm}$
Antimony (Sb)	: $\leq 1\text{ppm}$
Barium (Ba)	: $\leq 1\text{ppm}$
Molybdenum (Mo)	: $\leq 1\text{ppm}$
Copper (Cu)	: $\leq 0.1\text{ppm}$
Tin (Sn)	: $\leq 1\text{ppm}$
Chromium (Cr)	: $\leq 1\text{ppm}$
Purity	: $\geq 99.5\%$ (anhydrous basis)
Pharmacopoeia Specification(s)	: Ph. Eur.
Version	: v1.0

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**About D(+)-Lactose monohydrate, 99.5%,
Ph. Eur. grade**

No further details on record.