



## Specification

Concerning Product:	
Article number	14431437V01
Trade name / designation / denomination	D(+)-Glucose Monohydrat (min. 99,5%) LM
CAS number	14431-43-7
Other names / synonyms	•(2S,3R,4S,5S,6R)-6-(hydroxymethyl)oxane-2,3,4,5-tetrol hydrate; •D(+)-Glucose; •D(+)-Glucose monohydrate; •DEXTROSE; •Dextrose; •Dextrose monohydrate; •Dextrose, Granular, BiotechGrade; •Dextrose, Granular, Reagent, ACS; •Dextrose, Ultrapure; •α-D-Glucopyranose, hydrate (1:1);
EC number	604-408-5
Customs tariff number / CN code / TARIC	170230
Molecular weight [g / mol]	198.17116
Formula	C <sub>6</sub> H <sub>14</sub> O <sub>7</sub>

Parameter	Specification	Unit
<b>Organoleptic test</b>		
Appearance	white, crystalline solid	
<b>Physical parameter</b>		
Water content	7,0 – 9,0	%
Conductivity	(@ 28 °Brix) ≤ 20	µS/cm
pH value	3 – 6	
Bulk density	550 – 850	g/ml
Tamped density	600 – 875	g/ml
<b>Identity</b>		
Assay	on dry basis ≥ 99,5	%
<b>Impurities</b>		
Impurity	black points ≤ 10	n/100g
Impurity	DP2 -HPLC, on TS ≤ 0,5	%
Impurity	Schwefeldioxid (SO <sub>2</sub> ) ≤ 10	ppm
<b>Microbiological data</b>		
Total Plate Count	aerob, mesophil ≤ 1000	n/10g
Yeast and Mould	≤ 100	n/10g
<b>Particle size distribution</b>		
Particles	> 150µm 10 – 80	%
Particles	> 250µm ≤ 40	%
Particles	> 53 µm ≥ 70	%

### **Supplemental information:**

**Usage:** Food Grade

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 08. Jan. 2025

LF-Basis: (2016-02-01)

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