



Specification

Concerning Product:	
Article number	50997RACS
Trade name / designation / denomination	D(+)-Glucose Anhydrous
CAS number	50-99-7
Other names / synonyms	•(3R,4S,5S,6R)-6-(hydroxymethyl)oxane-2,3,4,5-tetrol; •Dextrose; •glucose;
EC number	200-075-1
Customs tariff number / CN code / TARIC	170230
Molecular weight [g / mol]	180.15588
Formula	C ₆ H ₁₂ O ₆

Parameter	Test Method	Specification	Unit
Physical parameter			
Acidity/Alkalinity	as CH ₃ COOH	≤ 0,002	meq/g
Substances insoluble		in H ₂ O: ≤ 0,003	%
Loss on drying		(105 °C) ≤ 0,2	%
Specific Optical Rotation	[α] _b (c=10 in H ₂ O)	52,5 – 53,0	°
Impurities			
Residue on ignition	as SO ₄	≤ 0,01	%
Heavy Metals (as Pb)		≤ 0,0005	%
Sulphates (SO ₄)		≤ 0,0025	%
Elemental Impurities			
Arsenic (As)		≤ 0,00004	%
Cadmium (Cd)		≤ 0,001	%
Chlorides (Cl)		≤ 0,0025	%
Copper (Cu)		≤ 0,0005	%
Iron (Fe)		≤ 0,0005	%
Nickel (Ni)		≤ 0,0005	%
Lead (Pb)		≤ 0,0005	%

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 13. Oct. 2021

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