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Sugars, also known as saccharides, are chemical substances characterised by their ring structure composed of carbon, hydrogen and oxygen atoms.



D(+)-Galactose, Pharmapur®, Ph Eur, BP

- Synonyms: Lactoglucose, D-Galactopyranose
- $C_6H_{12}O_6$
- $M = 180,16 \text{ g/mol}$
- CAS [59-23-4]
- EINECS-No.: 200-416-4
- Solub. in water: (20 °C): 650 g/l
- Melting point: 163 - 169 °C
- Tariff number: 2940 00 00 80
- Applications: analytical chemistry, in food industry, in biochemistry, nutrient media for bacterial culture, in pharma industry.

SPECIFICATIONS

assay (HPLC, on dried sample): 97,0 - 102,0 %

Identification IR: passes test

Identification TLC: passes test

Identification C (EP): passes test

appearance of solution: passes test

acidity or alkalinity: passes test

proteins: max. 0,1 mg/mL

Related substances (HPLC):

any unspecified impurities: max. 0,3 %

total: max. 2,0 %

residue on ignition: max. 0,1 %

water (K.F.): max. 1,0 %

total aerobic microbial count (TAMC): max. 100 CFU/g

Volume

x 100 g

Reference

[GA00250100](#)

Packaging

x 100 g :: Glass bottle



D(+)-Glucose anhydrous, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Dextrose
- C₆H₁₂O₆
- M = 180,16 g/mol
- CAS [50-99-7]
- EINECS-No.: 200-075-1
- Solub. in water: (20 °C): ~ 470 g/l
- Melting point: ~ 146 °C
- Ignition temp.: ~ 500 °C
- LD 50 (oral, rat): 25800 mg/kg
- Tariff number: 1702 30 50 00
- Applications: analytical chemistry, in biochemistry, for pharmaceutical use, in food industry, in pharma industry.

SPECIFICATIONS

assay (HPLC, on dried sample): 97,5 - 102,0%

identity (IR-spectrum): passes test

appearance of solution: passes test

conductivity (25 °C): max. 20 µS/cm

insoluble in water: max. 0,005 %

acidity: max. 0,002 meq/g

chlorides (Cl): max. 0,01 %

sulfates and sulfites (as SO₄): max. 0,005 %

heavy metals (as Pb): max. 5 ppm

iron (Fe): max. 5 ppm

dextrines: passes test

starch: passes test

soluble starch, sulfites: max. 15 ppm

related substances : passes test

loss on drying (105 °C): max. 0,2 %

residue on ignition: max. 0,02 %

water (K.F.): max. 1,0 %

Volume

x 250 g

Reference

[GL01270250](#)

Packaging

x 250 g :: Plastic bottle

Volume

x 1 kg

Reference

[GL01271000](#)

Packaging

x 1 kg :: Plastic bottle

Volume

x 5 kg

Reference

[GL0127005P](#)

Packaging

x 5 kg :: Plastic container



D(+)-Glucose anhydrous, Pharmpur®, USP

- Synonyms: Dextrose
- $C_6H_{12}O_6$
- $M = 180,16 \text{ g/mol}$
- CAS [50-99-7]
- EINECS-No.: 200-075-1
- Solub. in water: (20 °C): ~ 470 g/l
- Melting point: ~ 146 °C
- Ignition temp.: ~ 500 °C
- LD 50 (oral, rat): 25800 mg/kg
- Tariff number: 1702 30 50 00
- Applications: analytical chemistry, in biochemistry, for pharmaceutical use, in food industry, in pharma industry.

SPECIFICATIONS

assay (HPLC, on dried sample): 97,5 - 102,0%
Identification B (USP): passes test
identification A (USP): passes test:
clarity and colour of solution: passes test:
conductivity (25 °C): max. 20 $\mu\text{S/cm}$
Related substances: impurities A+B (maltose+isomaltose): max. 0,4 %
Related substances: impurity C (maltotriose): max. 0,2 %
Related substances: impurity D (fructose): max. 0,15 %
Related substances: unspecified impurities: max. 0,10 %
Related substances: total impurities / disregard limit: max. 0,5 %
water (K.F.): max. 1,0 %
dextrines: passes test
soluble starch, sulfites: max. 15 ppm



D(+)-Glucose monohydrate, Pharmpur®, Ph Eur, BP, USP

- Synonyms: Dextrose, Blood sugar
- $C_6H_{12}O_6 \cdot H_2O$
- $M = 198,17 \text{ g/mol}$
- CAS [14431-43-7]
- EINECS-No.: 200-075-1
- Solub. in water: (20 °C): ~ 470 g/l
- Melting point: ~ 83 °C
- Ignition temp.: ~ 500 °C
- LD 50 (oral, rat): 25800 mg/kg (anhydrous substance)
- Tariff number: 1702 30 51 00
- Applications: synthesis of organic products, in food industry, nutrient media for bacterial culture, for pharmaceutical use, in pharma industry.

SPECIFICATIONS

assay (HPLC, referred to dried sample): 97,5 - 102,0%
identification: passes test
appearance of solution: passes test
conductivity (25 °C): max. 20 $\mu\text{S/cm}$
related substances : passes test
dextrines : passes test
soluble starch, sulfites: max. 15 ppm
water (K.F.): 7,5 - 9,5 %



D(+)-Lactose monohydrate, Pharmpur®, Ph Eur, BP, NF

- Synonyms: Lactobiose, Milk sugar
- $C_{12}H_{22}O_{11} \cdot H_2O$
- $M = 360,32 \text{ g/mol}$
- CAS [10039-26-6]
- EINECS-No.: 200-559-2
- Solub. in water: (20 °C): freely soluble
- Melting point: 202 °C
- Tariff number: 1702 11 00 00
- Applications: analytical chemistry, synthesis of organic products, in food industry, for pharmaceutical use, in biochemistry, nutrient media for bacterial culture, in pharma industry.

SPECIFICATIONS

identity (IR-spectrum): passes test
Identification color reaction: passes test
Identification TLC: passes test
Identification water: passes test
absorbance: passes test
acidity or alkalinity: passes test
appearance of solution (10 %, H_2O): passes test
clarity and colour of solution: max. 0,04 %
specific rotation ($[\alpha]_{20}^{\circ}/D$, $c = 10$, H_2O): + 54,4 ° - + 55,9 °
sulphated ash: max. 0,1 %
total aerobic microbial count (TAMC): max. 100 CFU/g

mould count (TYMC): max. 50 UFC/g
absence of escherichia coli: passes test

max. absorbance from 210 - 220 nm: 0,25 AU
max. absorbance from 270 - 300 nm: 0,07 AU

residue on ignition: max. 0,1 %
loss on drying (80 °C, 2 h) : max. 0,5 %
water (K.F.): 4,5 - 5,5 %



D(+)-Mannose, for biochemistry

- $C_6H_{12}O_6$
- $M = 180,16 \text{ g/mol}$
- CAS [3458-28-4]
- EINECS-No.: 222-392-4
- Solub. in water: (20 °C): freely soluble
- Melting point: 133 °C
- Tariff number: 2940 00 00 10
- Applications: analytical chemistry, in biochemistry, in food industry, synthesis of organic products.

SPECIFICATIONS

assay (HPLC): min. 98 %
identity (IR-spectrum): passes test

heavy metals (as Pb): max. 0,001 %
water (K.F.): max. 0,5 %



D(+)-Saccharose (sucrose), molecular biology grade

- Synonyms: Cane sugar, Sucrose
- $C_{12}H_{22}O_{11}$
- $M = 342,30 \text{ g/mol}$
- CAS [57-50-1]
- EINECS-No.: 200-334-9
- Solub. in water: (20 °C): freely soluble
- Melting point: 169 - 170 °C
- LD 50 (oral, rat): 29700 mg/kg
- Tariff number: 1701 99 10 80
- Applications: analytical chemistry, for determination of proteins, in food industry, for pharmaceutical use, synthesis of organic products, in biochemistry, nutrient media for bacterial culture.

SPECIFICATIONS

identity (IR-spectrum): passes test

$c = 26, \text{H}_2\text{O}$): $+ 66,2^\circ - + 66,8^\circ$

(50 %) in a 1 cm cell at 260 nm: max. 0,20 AU

(50 %) in a 1 cm cell at 280 nm: max. 0,15 AU

heavy metals (as Pb): max 0,001 %

reducing sugars: max. 0,5 %

TLC test: passes test

residue on ignition: max. 0,02 %:

DNases, RNases, Proteases : non detected



D(+)-Saccharose, for analysis, ExpertQ®, Reag. Ph Eur

- Synonyms: Cane sugar, Sucrose
- $C_{12}H_{22}O_{11}$
- $M = 342,30 \text{ g/mol}$
- CAS [57-50-1]
- EINECS-No.: 200-334-9
- Solub. in water: (20 °C): freely soluble
- Melting point: 169 - 170 °C
- LD 50 (oral, rat): 29700 mg/kg
- Tariff number: 1701 99 10 80
- Applications: analytical chemistry, for determination of proteins, in food industry, for pharmaceutical use, synthesis of organic products, in biochemistry, nutrient media for bacterial culture.

SPECIFICATIONS

identity (IR-spectrum): passes test

appearance of solution : clear

conductivity (20°C): max. $35 \mu\text{S} \cdot \text{cm}^{-1}$

specific rotation ($[\alpha]_{20}^\circ \text{ D; } c=260, \text{H}_2\text{O}$): $+ 66,3^\circ - + 67,0^\circ$

colour value: max. 45

reducing sugars: passes test

sulfites (as SO_2): max. 10 ppm

loss on drying (105 °C, 3 h): max. 0,1 %



D(+)-Saccharose, Pharmpur®, Ph Eur, BP, NF

- Synonyms: Cane sugar, Sucrose
- $C_{12}H_{22}O_{11}$
- $M = 342,30 \text{ g/mol}$
- CAS [57-50-1]
- EINECS-No.: 200-334-9
- Solub. in water: (20 °C): freely soluble
- Melting point: 169 - 170 °C
- LD 50 (oral, rat): 29700 mg/kg
- Tariff number: 1701 99 10 80
- Applications: analytical chemistry, for determination of proteins, in food industry, for pharmaceutical use, synthesis of organic products, in biochemistry, nutrient media for bacterial culture.

SPECIFICATIONS

Identification IR: passes test
Identification TLC: passes test
Identification C (EP): passes test
appearance of solution : passes test
colour value: max. 45
conductivity (20°C): max. $35 \mu\text{S}\cdot\text{cm}^{-1}$
specific rotation ($[\alpha]_{20}^{\circ}/D$; $c=260$, H_2O): $+ 66,3^{\circ} - + 67,0^{\circ}$
sulfite: passes test
sulfites (as SO_2): max. 10 ppm
reducing sugars: passes test
loss on drying (105 °C, 3 h): max. 0,1 %



D(+)-Xylose, EssentQ®

- Synonyms: Wood sugar
- $C_5H_{10}O_5$
- $M = 150,13 \text{ g/mol}$
- CAS [58-86-6]
- EINECS-No.: 200-400-7
- Solub. in water: (20 °C): freely soluble
- Melting point: 154 °C
- Tariff number: 2940 00 00 20
- Applications: cosmetics, manufacture of dyes, in food industry, in pharma industry.

SPECIFICATIONS

assay: min. 98 %
identity (IR-spectrum): passes test
specific rotation ($[\alpha]_{20}^{\circ}/D$, $c = 10$, H_2O): $18,5^{\circ} - 19,5^{\circ}$
residue on ignition: max. 0,1 %
water (K.F.): max. 0,5 %



D(+)-Xylose, Pharmpur®, Ph Eur, BP

- Synonyms: Wood sugar
- $C_5H_{10}O_5$
- $M = 150,13 \text{ g/mol}$

- CAS [58-86-6]
- EINECS-No.: 200-400-7
- Solub. in water: (20 °C): freely soluble
- Melting point: 154 °C
- Tariff number: 2940 00 00 20
- Applications: cosmetics, manufacture of dyes, in food industry, in pharma industry.

SPECIFICATIONS

identity (IR-spectrum): passes test

Identification TLC: passes test

Identification C (EP): passes test

appearance of solution (10 %, H₂O): clear and colourless

acidity or alkalinity: passes test

chlorides (Cl): max. 330 ppm

residue on ignition: max. 0,1 %

loss on drying (105 °C): max. 0,5 %



D(-)-Fructose, Pharmapur®, Ph Eur, BP, USP

- Synonyms: Levulose, Laevulose

- C₆H₁₂O₆

- M = 180,16 g/mol

- CAS [57-48-7]

- EINECS-No.: 200-333-3

- Solub. in water: (20 °C): 500 g/l

- Melting point: 100 - 110 °C (decomposes)

- Tariff number: 1702 50 00 00

- Applications: analytical chemistry, in food industry, synthesis of organic products, nutrient media for bacterial culture, in pharma industry.

SPECIFICATIONS

assay (on dried sample): 98,0 - 102,0 %

Identification IR: passes test

Identification TLC: passes test

identification B (EP): passes test

Identification C (EP): passes test

Identification D (EP): passes test

appearance of solution: passes test

colour of solution: passes test

acidity or alkalinity: passes test

acidity: passes test

specific rotation ([α]_{20°/D}, c = 10, H₂O): - 93,5 ° - - 91,0 °

chlorides (Cl): max. 0,018 %

sulfates (SO₄): max. 0,025 %

arsenic (As): max. 1 ppm

calcium and magnesium (as Ca): max. 0,005 %

foreign sugars: passes test

5-Hydroxymethylfurfural and related substances: max. 0,32 AU

limit of hydroxymethylfurfural: passes test

color of solution: passes test

residue on ignition: max. 0,1 %

water (K.F.): max. 0,5 %

loss on drying : max. 0,5 %



D(-)-Mannitol, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Manna sugar
- C₆H₁₄O₆
- M = 182,17 g/mol
- CAS [69-65-8]
- EINECS-No.: 200-711-8
- Solub. in water: (25 °C): 213 g/l
- Melting point: 165-169 °C
- Boiling point: (4 hPa) 290 - 295 °C
- LD 50 (oral, rat): 13500 mg/kg
- Tariff number: 2905 43 00 00
- Applications: analytical chemistry, manufacturing of synthetic resins, for pharmaceutical use, in food industry, for determination of: boric acid.

SPECIFICATIONS

assay (HPLC, referred to dried sample): 97,0 - 102,0 %
 identity (IR-spectrum): passes test
 insoluble in water: max. 0,01 %
 acidity: max. 0,0008 meq/g
 conductivity (25°C; 20%, in H₂O): max . 20 µS/cm
 specific rotation ([α] 25 °C/D, c = 10, in borax, 13 %): + 23,3 ° - + 24,3 °
 melting range : 165 - 170 °C
 heavy metals (as Pb): max. 5 ppm
 nickel (Ni): max. 1 ppm
 reducing sugars (as glucose): max. 0,1 %
 reducing sugars: passes test

residue on ignition: max. 0,01 %
 loss on drying (105 °C): max. 0,05 %
 loss on drying (105 °C, 4h) : max. 0,5 %



D(-)-Mannitol, Pharmapur®, Ph Eur, BP, USP, JP

- Synonyms: Manna sugar
- C₆H₁₄O₆
- M = 182,17 g/mol
- CAS [69-65-8]
- EINECS-No.: 200-711-8
- Solub. in water: (25 °C): 213 g/l
- Melting point: 165-169 °C
- Boiling point: (4 hPa) 290 - 295 °C
- LD 50 (oral, rat): 13500 mg/kg
- Tariff number: 2905 43 00 00
- Applications: analytical chemistry, manufacturing of synthetic resins, for pharmaceutical use, in food industry, for determination of: boric acid.

SPECIFICATIONS

assay (HPLC, referred to dried sample): 97,0 - 102,0 %
 Identification IR: passes test
 Identification TLC: passes test
 appearance of solution: clear and colourless
 specific optical rotation (30°C, on dried sample): + 23 ° - + 25 °
 conductivity (25°C; 20%, in H₂O): max . 20 µS/cm
 melting range : 165 - 170 °C
 heavy metals (as Pb): max. 5 ppm
 nickel (Ni): max. 1 ppm

D-sorbitol: max. 2,0 %
 D-maltitol + isomalt: max. 2,0 %
 unspecified impurities: max. 0,10 %
 total: max. 2,0 %

reducing sugars (as glucose): max. 0,1 %
loss on drying (105 °C, 4h) : max. 0,5 %



D(-)-Ribose, EssentQ®

- Synonyms: α-D-Ribofuranose
- C₅H₁₀O₅
- M = 150,13 g/mol
- CAS [50-69-1]
- EINECS-No.: 200-059-4
- Solub. in water: (20 °C): soluble
- Melting point: ~ 90 - 95 °C
- Tariff number: 2940 00 00 80
- Applications: analytical chemistry, in biochemistry, in food industry synthesis of organic products, nutrient media for bacterial culture.

SPECIFICATIONS

identity (IR-spectrum): passes test

heavy metals (as Pb): max. 0,001 %
related substances (TLC): passes test
water (K.F.): max. 0,5 %



D-Trehalose, for bacteriology

- Synonyms: Mycose, α-D-Glucopyranosyl-α-D-glucopyranoside
- C₁₂H₂₂O₁₁
- M = 342,30 g/mol
- CAS [99-20-7]
- EINECS-No.: 202-739-6
- Solub. in water: (20 °C): 100 g/l
- Melting point: 203 °C
- Tariff number: 2940 00 00 80
- Applications: in biochemistry, for microbiology.

SPECIFICATIONS

glucose (C.C.F.): max. 0,1 %
identity (IR-spectrum): passes test

referred to dried sample): +197 ° - + 200 °
heavy metals (as Pb): max. 0,001 %
water (K.F.): max. 1 %

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