SWEETENERS DIVISION
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Valid from: October 26, 2010

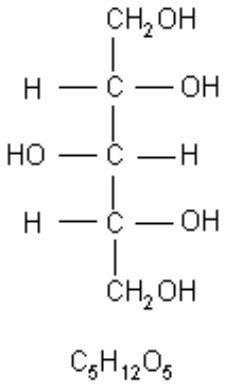
First you add knowledge...

TECHNICAL SPECIFICATION - PDt 214859-7.0EN

XIVIA™ C

Xylitol

Description



$C_5H_{12}O_5$

Mol. Wt: 152.15

Food Grade, Crystalline
Product complies with USP/NF, FCC and Ph. Eur. monographs for Xylitol

White crystalline powder; practically odourless, with a very sweet, cool taste.

Particle size: > 2.4 mm = 0% - sieving method
< 0 .15 mm = max 7% - laser diffraction

Solubility: very soluble in water (approximately 1.6 g/ml @ 20°C); sparingly soluble in ethanol.

Physical/chemical specifications

(Dry substance abbreviated to d.s. in below table)

Colour	Max. 15 ICUMSA [1]
pH (10% w/v solution)	5.0-7.0 [2]
Assay (on dry substance)	98.5 - 101.0 % [3]
Other polyols (on d.s): singly	Max. 0.5 % [46]
Other polyols (on d.s.): - total	Max. 1.0 % [46]
Reducing sugars	Max. 0.2 % [4]
Moisture	Max. 0.2 % [5]
Ash/Residue on Ignition	Max. 0.1 % [24]
Melting point	92°C-96°C [6]
Chloride	Max. 40 mg/kg [9]
Sulphate	Max. 50 mg/kg [9]

The numbers in brackets refer to the following methods:
[1] ICUMSA
[2] pH meter
[3] HPLC
[4] Luff Schoorl
[5] Karl Fischer
[6] European Pharmacopoeia (Ph. Eur.)
[9] USP
[24] ICUMSA conductivity/USP
[46] Gas Liquid Chromatography/HPLC

Heavy metal specifications

Arsenic	Max. 0.5 mg/kg [8]
Heavy Metals	Max. 1 mg/kg [47]
Lead	Max. 0.3 mg/kg [8]
Nickel	Max. 1 mg/kg [25]

The numbers in brackets refer to the following methods:
[8] ICP
[25] ICP/AAS
[47] European Pharmacopoeia (Ph. Eur.)/USP

Storage

Recommended storage:

XIVIA™ is stable to air and heat but is marginally hygroscopic. Goods in the original sealed packaging stored at temperatures below 25°C and relative humidity less than 65% can be expected to retain stability for at least three years.

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Additional information

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