

PRODUCT DESCRIPTION - PDt 214859-17.0EN Material no. 8136892

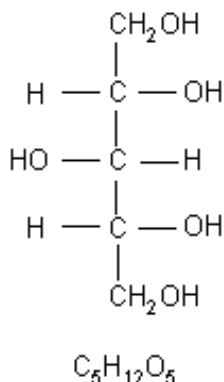
XIVIA™ C

Xylitol

Application

XIVIA™ C grades may be used for all applications including confectionery, dairy and baked goods.

Description



Mol. Wt: 152.15

Food Grade, Crystalline
Product complies with FCC, USP/NF & 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

Potential benefits

- Unique dental benefits whilst having same level of sweetness as sucrose. XIVIA™ C enhances fruit flavours and especially mint flavours. In addition XIVIA™ C is widely used as a sugar substitute due to its desirable sweetness intensity and profile. "Reduced in sugar" and "Sugar free" claims can be made, as well as claims relating to reduced postprandial response when compared to glucose or sucrose.

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]
Chloride	Max. 40 mg/kg [9]
Sulphate	Max. 50 mg/kg [9]
Conductivity	Max. 20 µS.cm ⁻¹ [6]

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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Composition

99.9% Xylitol produced by catalytic hydrogenation of D-Xylose.

Properties

- Molecular Weight - 152.15
- Melting Point - 92-96°C
- Viscosity of solution at 20°C (% w/w) (mPa.S) - 20% 1.99, 40% 4.06
- Heat of Solution - 36.6 kcal/g
- Relative Sweetness - 100% equal to sucrose
- Solubility - Very soluble in water (approx 164g/100g of water @ 20°C).
- Solubility in 96% Ethanol (approx 1.2g/100g solution @ 25°C).

Packaging

25kg multi-wall, paper sack with LDPE liner. Pallet size: 600kg

Safety and handling

Non-hazardous material. Material Data Sheet (MSDS) is available on request.

Country of origin

Finland

Kosher status

XIVIA™ C is KOSHER certified under the Orthodox Union US.

Halal status

XIVIA™ C is Halal certified by The Halal Food Council of Europe (HFCE).

GMO status

According to EU Regulations 1829/2003 and 1830/2003, the raw materials used in the production of XIVIA™ C do not contain or consist of GMO's, neither have they been produced from GMO's.

Allergens

Below table indicates the presence of the following allergens and products thereof:

Yes	No	Allergens	Description of components
	X	Cereals containing gluten	
	X	Crustaceans	
	X	Eggs	
	X	Fish	
	X	Peanuts	
	X	Soybeans	
	X	Milk (including lactose)	
	X	Nuts	
	X	Celery	
	X	Mustard	
	X	Sesame seeds	
	X	Sulphur dioxide and sulphites (> 10mg/kg)	
	X	Lupin	
	X	Molluscs	

Additional information

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