



TECHNICAL DATA SHEET

003733-TDS-ENG-2019

XANTHINOL NICOTINATE		
DESCRIPTION DCI: XANTINOL NICOTINATE		DESCRIPTION DOE: NICOTINATO XANTINOL
CAS Nº: 437-74-1	EC Nº: 207-115-7	AEMPS CODE: 3224NB
MOL. WEIGHT: 434.45	MOL. FORMULA: C ₁₉ H ₂₆ N ₆ O ₆	ARTICLE CODE: 003733

ATTRIBUTES	SHOULD BE
Appearance	White crystals or crystalline powder, no smell
Solubility	Soluble in water or glacial acetic acid, slightly soluble in chloroform and anhydrous ethanol
Melting point	180 - 184 °C
Identification (1)	Complies
Identification (2)	Complies
Identification (3)	Complies
Identification (4)	Complies
pH	5.5 - 6.5
Clarity and colour of solution	Complies
Related substances	
Theophylline	=< 0.3 %
Total of other impurities	=< 0.3 %
Loss on drying	=< 0.5 %
Residue on ignition	=< 0.1 %
Assay	=> 98.0 %
Residual solvents	
Ethanol	=< 5000 ppm
Methanol	=< 3000 ppm
Toluene	=< 890 ppm
Microbiological control	
TAMC	=< 1000 CFU/g
TYMC	=< 100 CFU/g
Escherichia coli	Absence/g

COMPLIES WITH

Manufacturer specifications

STORAGE

Keep the container tightly closed in a dry and well-ventilated place.

REMARKS

XANTHINOL NICOTINATE is subjected to the requirements of the ICH Q3D "Elemental Impurities" guideline.

Certificates of residual solvents, allergens, non-GMO, fermentation and BSE-TSE are available upon request.

Properties

Xanthinol Nicotinate is a potent vasodilator that can easily pass through the cell membrane and once inside the cell it causes an increase in glucose metabolism resulting in an increased energy.