

Pentaerythritol nitration

Product Description

Pentaerythritol nitration grade (Penta N) is Penta of high purity and controlled particle size. It is a white crystalline material. The product is a polyhydric alcohol containing four primary hydroxyl groups.

Segment Applications

Penta Nitration Grade is specially designed for Nitration and the production of Penta Tetra Nitrate (PETN). Naturally the product can be used for the production of other type of esters as well.

Delivery Forms

25 kg bags as 750 and 1000 kg/pallet
Groundable big bags (Type-C) 500 kg



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Sales Specification

Characteristics	Unit	Specification	Analytical Method ¹	Comment
Monopentaerythritol content	%	Min. 98.7	PO 115-2	
Hydroxyl number	mg KOH/g	1625 - 1650	PO 100-2	2
Ash content (as Na or Ca)	ppm	Max. 15	PO 103-10	

1. Analytical methods are available on request

2. As OH-percentage, 49.2 - 50.0 %

General Characteristics

Characteristics	Unit	Typical Value ¹
Di-Pentaerythritol content	%	0.1
Melting point (final)	°C	263
Particle size < 1 mm	%	> 98
Particle size < 105 µm	%	< 2

1. Typical values are for information only and not part of sales specification

Handling and Storage

Penta Nitration Grade is a non-hygroscopic product. However it should be stored under dry conditions, in sealed bags, and protected from direct sunlight.

CAS No.: 115-77-5

HS No.: 2905 42

EC (EINECS) no.: 204-104-9

REACH registration No.: 01-2119473985-20-0000

Effective date: October 26, 2020

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