



PENTAERYTHRITOL

Pentaerythritol is manufactured from formaldehyde and acetaldehyde in the presence of an alkaline catalyst, such as sodium or calcium hydroxide. Its readily soluble in hot water, slightly soluble in cold water, slightly soluble in alcohol, and insoluble in benzene, tetra-chloromethane, ether and petroleum.

APPLICATION



Pentaerythritol is a white, crystalline powder and is mainly used in manufacture of alkyd resins as well as plasticizers and emulsifiers.



This simple five-carbon tetraol it is used in production of explosives, plastics, paints, appliances, and cosmetics, as well as flame retardant or laxative.

PENTAERYTHRITOL TECHNICAL

Specification:

ITEM OF TEST	TEST RESULTS
APPEARANCE:	WHITE POWDER
CONTENT MONOPENTAERYTHRITOL, NO LESS	98%
CONTENT DIPENTAERYTHRITOL, MAX	0,3 - 0,8%
MELTING POINT °C, NO LOWER	258
WATER CONTENT %, MAX	0,1
CONTENT ASH, MAX	0,0015
MELT COLOR, APHA, MAX	100
HYDROXYL VALUE, MAX	49,7-50,0
PH (5% WATER SOLUTION)	5-7
MASS FRACTION OF PRODUCT PASSING THROUGH SIEVE 0,1K, NO MORE	7%

CAS N: 115-77-5, EC N: 204-104-9

Chemical formula: C₅H₁₂O₄

Appearance: white, crystalline powder.

Applications: intumescent systems

Packaging: bags 25 kg, big bags 500 kg & 1.000 kg, bulk

Shelf life: 24 months