Technical Data Sheet

Item Name:

PENTA

PRODUCT INFORMATION

Chinese Name:	季戊四醇
Commodity Name:	PENTA
Chemical Name:	Mono Pentaerythritol
Other Name:	Penta Erythritol, Tetramethylolmethane, Hercules P 6, 2,2-bis(hydroxymethyl)-1,3-Propanediol, Tetrakis(hydroxymethyl)methane
CAS No.:	115-77-5
Molecular Weight:	136.15
Molecular Formula:	$C(CH_2OH)_4$

TECHNICAL SPECIFICATION

Index	Standard
Appearance	White crystalline powder
Purity by wt %	98 min
OH group by wt %	49 min
Moisture by wt %	0.2 max
Ash by wt %	0.05 max
Color (phthalate)	1 max
Melting point (C.degree)	255 min

MAIN APPLICATION

Alkyd resin; Rosin ester; PVC stabilizers; Fire-retardant etc.

Pentaerythritol is mainly used in the coating industry and can be used to manufacture alkyd resin coatings, which can improve the hardness, gloss and durability of coating film. It is also used as the raw material of rosin balsam for color paints, varnishes and printing inks, as well as drying oils, anti-fire coatings and aviation lubricants. In addition, it is also used in prouction of medicine, pesticides and others. Pentaerythritol molecule contains four equivalent hydroxylmethyl groups with high symmetry, so it is often used as raw materials for the preparation of polyfunctional-group compounds. By nitration, it can be prepared for Pentaerythritol tetranitrate which is a kind of high explosive; It also can be esterified for Pentaerythritol triacrylate as coatings. Meanwhile it can be used as flame retardant of adhesives, and can be obtained expansion-type flame retardant when react with ammonium polyphosphate. It is also used as a crosslinking agent in polyurethanes to provide a branch chain for it..

PACKING, LOADING AND SHELF LIFE

Packing: 25/ 500kg PP bag with PE liner
Loading: Palletized, 20mt/20'fcl
Shelf Life: 24 months when stored in cool, dry and ventilated warehouse, away from incompatible materials.

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