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Product Information Methyltetrahydrophthalic Anhydride (MTHPA)

CAS number: 11070-44-3 EINECS number: 234-290-7

Formula: $C_9H_{10}O_3$

Structural formula:

CH₃ C C

Molecular weight: 166.2

Synonyms

1,3-isobenzofurandione, tetrahydromethyl; 1,2,3,6-Tetrahydromethylphthalic anhydride.

Applications

MTHPA is mainly used as a curing agent for epoxy resins. It has a low tendency to absorb moisture from the air and zero or minimal formation of carbon dioxide when mixed with tertiary amine accelerators.

MTHPA can be easily blended with various liquid resins providing stable, low viscous mixture and long pot lives. It is widely used for:

- Casting/Potting

Impregnation

Lamination

In the field of reinforced plastics it is used for filament wound products (pipes for oil, poles and sport goods), laminated sheets, printed circuit boards, switch gears.

Thanks to its excellent insulating properties, MTHPA found a lot of applications for the production of electrical parts such as: capacitors, resistors, wiring parts transformers, ignition coils, fly back transformers

Product range

A range of product is available to satisfy all customer's needs. Please contact Lonza S.p.A. for more informations.

Specifications MTHPA

Appearance: clear liquid
Purity: 99.0 % min
Colour 80 Hazen max
Acid content: 0.5 % max

Typical properties

Pour point - 40°C
Specific gravity 25°C 1.197 g/ml
Viscosity, 25°C 58.0 mPa.s
Vapour pressure, 120°C 2.0 mPa.s
Refractive index, 25°C: 1.495

Handling

Shelf life:

<u>Packaging:</u> galvanized drum 220 kg

bulk

upon request other form of packaging can be available

Storage: it must be stored away from

open flames or other potential ignition source, and should be protected from moisture because, especially PI and easy 600 versions. when crystallizes it's in contact with the air moisture. In the winter season MTHPA can solidify, it can easily be remelted by simply heating.

12 months from production date

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