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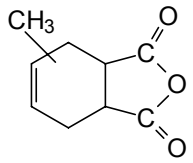
Product Information
Methyltetrahydrophthalic Anhydride (MTHPA)

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

Formula: $C_9H_{10}O_3$

Structural formula:



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

Packaging:	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 600 versions, easy crystallizes when it's in contact with the air moisture. In the winter season MTHPA can solidify, it can easily be remelted by simply heating.
Shelf life:	12 months from production date