

## Technical data sheet

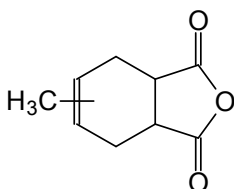
# Methyltetrahydrophthalic anhydride/NT (MTHPA/NT)

Version: 02 date: May 2014

### Chemical Composition

MTHPA/NT is a blend of cycloaliphatic anhydrides. Main components are MTHPA isomers.

### Structural formula



**Equivalent weight (theoretical):** 165.6

### CAS number

34090-76-1  
5333-84-6  
85-43-8  
19438-60-9

### EINECS number

251-823-9  
226-247-6  
201-605-4  
243-072-0

### Product specification

| Characteristics | Unit | Value        | Method*     | Reference   |
|-----------------|------|--------------|-------------|-------------|
| Appearance      |      | Clear liquid | L000        |             |
| Purity          | %    | 99.0 min     | GM005 all.1 |             |
| Colour          | HZ   | 80 max       | GM011       | ASTM D-1209 |
| Acid content    | %    | 0.5 max      | L002        |             |

\* Internal methods available upon request.

### Typical properties

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| Characteristics             | Unit  | Value  |
|-----------------------------|-------|--------|
| Density @ 25°C              | g/ml  | 1,199  |
| Viscosity @ 25°C            | mPa.s | 56,0   |
| Vapour pressure @ 120°C     | mmHg  | 2,0    |
| Refractive index $n_D^{25}$ |       | 1,4952 |

## Main applications

MTHPA/NT 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 mixtures and long pot lives. It is widely used for:

- Casting / Potting
- Impregnation
- Lamination

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

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

## 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 sources, and should be protected from moisture because it easily crystallizes when in contact with the air moisture. During the winter season MTHPA/NT can solidify, but it can be easily re-melted by simply heating.

Shelf life: 12 months from production date.

*The information contained in this sheet is correct and accurate and is based on our technical and scientific knowledge and on literature at the date of going to press. Such information relates only to use of the products in the pure state and for the purposes stated herein. Nothing stated here may be taken or construed as implying of any existing patents. Nor is any warranty, whether explicit or implicit, given with regard to results to be obtained through the use of the aforesaid information.*

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