

## Technical data sheet

# 1,2,3,6-Tetrahydrophthalic anhydride (THPA-Δ4)

Version: March 2009

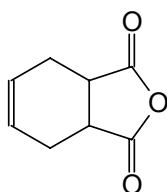
### Synonyms

4-Cyclohexene-1,2-dicarboxylic anhydride; Tetrahydrophthalic acid anhydride.

### Formula

$C_8H_8O_3$

### Structural formula



**Molecular weight:** 152.2

### CAS number

85-43-8

### EINECS number

201-605-4

### Product specification

Characteristics	Unit	Value	Method*	Reference
Appearance		- White flakes - Clear liquid	L000	
Purity	%	99.5 min	L001	
Solidification point	°C	100.5 min	GM013	ASTM D-1493
Colour in molten state	Hz	50 max	GM011	ASTM D-1209
Acid content	%	1.0 max	L002	
Maleic anhydride content	%	0.05 max	GM001-all3	
Ash	ppm	10 max	GM015	ASTM D-482
Iron	ppm	1 max	L004	

\* Internal methods available upon request.

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## Typical properties

Characteristics	Unit	Value
Density @ 120°C	g/ml	1.170
Viscosity @ 120°C	mPa.s	5.50
Vapour pressure @ 120°C	mmHg	3.0

## Main applications

THPA-Δ4 is mainly used as hardener for epoxy resins, as chemical intermediate for light-coloured alkyd polyester and unsaturated resins, plasticizers, adhesives, intermediate for pesticides and agrochemicals.

## Handling

Packaging: polyethylene bag 25 kg;  
big bags 500/1000 Kg;  
bulk in liquid form.

Storage: It must be stored away from open flames or other potential ignition source, and should be protected from moisture.

Shelf life: 6 months from production date (for solid product).

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