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Technical data sheet

Trimellitic anhydride (TMA)

Version: 03 date: September 2016

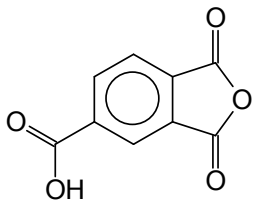
Synonyms

1,3-Dihydro-1,3-dioxoisobenzofuran-5-carboxylic acid; 4-Carboxyphthalic anhydride; CPA; Trimellitic acid anhydride; 1,3-Dioxo-1,3-dihydro-2-benzofuran-5-carboxylic acid.

Formula

$C_9H_4O_5$

Structural formula



Molecular weight: 192.1

CAS number

552-30-7

EINECS number

209-008-0

Product specification

Characteristics	Unit	Value	Method*	Reference
Purity (TMA anhydride content)	%	97.5 min	GM001 all.06	
ΔE		1.3 max	TMA 03	
Solidification point	°C	166 min	GM013	ASTM D-1493
Colour in molten state	Hz	150 max	GM011	
Phthalic anhydride content	%	0.1 max	GM001 all.06	

* *Internal methods available upon request.*

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Typical properties

Characteristics	Unit	Value
Boiling point	°C	390
Density @ 200°C (molten)	g/ml	1.332
Vapour pressure @ 200 °C	mmHg	2.0
Viscosity @ 200°C	mPa.s	9.1

- *The above figures are typical values and are not intended as specification limits*

Main applications

TMA is mainly used as intermediate for plasticizers for PVC (Trimellitates), polyester powder coatings, polyester-imide resins, polyamide-imides and in water-soluble alkyd resins.

Handling

Packaging: paper bag 25 kg;
big bags 500/1000 kg
bulk, in autosilos.

Storage: it must be stored for a limited time only, away from open flames and other potential ignition sources, in cool, dry, well-ventilated place and protected from light and moisture.

Shelf life: 12 months from production date.

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