

Technical data sheet

Hexahydrophthalic anhydride (HHPA)

Version: 02 date: May 2014

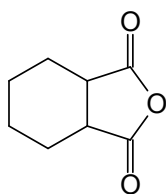
Synonyms

Cyclohexane-1,2-dicarboxylic anhydride; 1,3 - Isobenzofurandione hexahydro-;

Formula

$C_8H_{10}O_3$

Structural formula



Molecular weight: 154.2 g/mol

CAS number

85-42-7

EINECS number

201-604-9

Product specification

Characteristics	Unit	Value	Method*	Reference
Appearance		- White solid - Clear liquid	L000	
Purity	%	99.0 min	L001	
Solidification point	°C	34.5 min	GM013	ASTM D-1493
Colour in molten state	HZ	20 max	GM011	ASTM D-1209
Acid content	%	0.6 max	L002	
Temperature of clearness	°C	60 max	L008	
Acid number	mgKOH/g	720 ÷ 728	L001	
IR identity		Conform to STD	GM006	

* Internal methods available upon request.

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Typical properties

Characteristics	Unit	Value
Boiling point	°C	296
Density @ 40°C	g/ml	1.193
Viscosity @ 40°C	mPa.s	47.0
Vapour pressure @ 120°C	mmHg	3.7

* Internal methods available upon request.

Main applications

HHPA is mainly used as intermediate for coating resins, plasticizers, insect repellents and rust inhibitors, and as hardener for epoxy resins. HHPA is preferred over other cyclic anhydrides in casting and coating applications for his higher resistance to yellowing.

Handling

Packaging: galvanized steel drum 220 kg;
bulk.

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

Shelf life: 12 months from production date.

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