

Technical data sheet

Maleic anhydride – Molten (MA)

Version: March 2009

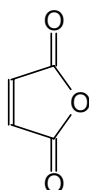
Synonyms

2,5-Furandione; *cis*-Butenedioic anhydride; Maleic acid anhydride; Toxilic anhydride.

Formula

$C_4H_2O_3$

Structural formula



Molecular weight: 98.1

CAS number

108-31-6

EINECS number

203-571-6

Product specification

Characteristics	Unit	Value	Method*	Reference
Appearance		Clear liquid	L000	
Purity	%	99.5 min	L001	ISO 1390/IV
Solidification point	°C	52.4 min	GM013	ASTM D-1493; ISO 1392/77E
Colour in molten state	Hz	20 max	GM011	ASTM D-3366; ISO 1389/II
Maleic acid	%	0.2 max	L002	
Ash	ppm	10 max	GM015	ASTM D-482
Iron	ppm	2 max	L004	
<i>o</i> -Xilene solution		Clear or slightly opalescent	L026	

* Internal methods available upon request.

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Typical properties

Characteristics	Unit	Value
Melting point	°C	53
Boiling point	°C	202
Density @ 60°C	g/ml	1.310
Viscosity @ 70°C	mPa.s	1.53
Vapour pressure @ 70°C	mmHg	6.2

Main applications

Maleic anhydride is a versatile multifunctional chemical intermediate that found applications in nearly every field of industrial chemistry.

Just to list some of the most popular applications, it is an important raw material for unsaturated polyester resins (U.P.R.), surface coatings, plasticizers, lubricant additives, copolymers, agricultural chemicals, paper sizing, fumaric, succinic, malic acid, butanediol and many others.

Handling

Packaging: Bulk, molten in heated tank.

Storage: It must be stored for a limited time only, in heated tanks (70°÷75°C) away from open flames or other potential ignition source and protected from moisture.

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