

Technical data sheet

Dimethyl Succinate (DMS)

Version: February 2007

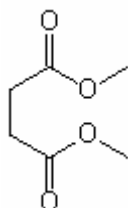
Synonyms

Butanedioic acid, dimethyl ester; Succinic acid, dimethyl ester; Dimethyl butanedioate; Methyl succinate.

Formula

$C_6H_{10}O_4$

Structural formula



Molecular weight: 146.2

CAS number

106-65-0

EINECS number

203-419-9

Product specification

Characteristics	Unit	Value	Method*	Reference
Appearance		Clear liquid	L000	
Purity	%	98.5 min	GM002-AII046	
Moisture	%	0.1 max	GM 010	ASTM E-203
Colour	H _z	15 max	GM011	ASTM D-1209
Acid number	mgKOH/g	0.2 max	L013	ASTM D-1613
Refractive Index n_D^{20}		1.41 ÷ 1.43	GM020	ASTM D-542
Density @ 20°C	g/ml	1.11 ÷ 1.13	GM014	ASTM D-891

* Internal methods available upon request.

Typical properties

Technical Data Sheet

Dimethyl Succinate (DMS)

Version: February 2007

Characteristics	Unit	Value
Solidification point	°C	19°C
Boiling point	°C	196
Viscosity @ 25°C	mPa.s	2.8
Vapour pressure @ 30°C	mmHg	0.3
Flash point (O.C.)	°C	85
Solubility in water @25°C	g/l	102.0

Main applications

DMS is an intermediate for fine chemicals synthesis. It is mainly used in manufacturing plastics additives, pigments and other organic compounds.

Handling

Packaging: steel painted drum 200 kg;
bulk.

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

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.