

Technical data sheet

Diethyl Succinate (DES)

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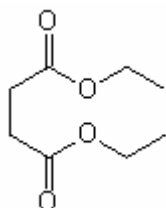
Synonyms

Butanedioic acid diethyl ester
Succinic acid diethyl ester

Formula

$C_8H_{14}O_4$

Structural formula



Molecular weight: 174.2

CAS number

123-25-1

EINECS number

204-612-0

Product specification

Characteristics	Unit	Value	Method*	Reference
Appearance		Clear liquid	L000	
DES content	%	98.5 min	GM002 – AII048	
Moisture	%	0.5 max	GM 010	ASTM E-203
Colour	Hz	15 max	GM011	ASTM D-1209
Acid number	mgKOH/g	0.2 max	L013	ASTM D-1613

* Internal methods available upon request.

Typical properties

Characteristics	Unit	Value
Solidification point	°C	- 20°C
Boiling point	°C	216.5
Viscosity @ 25°C	mPa.s	2.0
Vapour pressure @ 105°C	mmHg	15
Density @ 20°C	g/ml	1.042
Refractive index n_D^{20}		1.419
Flash point (O.C.)	°C	90

Main applications

DES is mainly used as intermediate for plastics, dyestuff and flavours, in perfume esters, pharmaceuticals and agrochemicals manufacturing.

Handling

Packaging: steel painted drum 200 kg.

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.

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