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Technical data sheet

Di(2-Ethylhexyl) Fumarate (DOF)

Version: February 2009

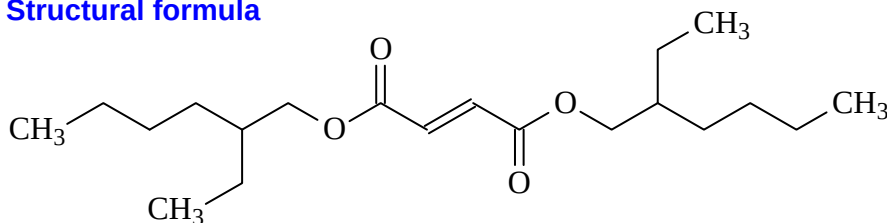
Synonyms

Di(2-Ethylhexyl) Fumarate, Dioctyl Fumarate

Formula

$C_{20}H_{36}O_4$

Structural formula



Molecular weight: 340.50

CAS number

141-02-6

EINECS number

205-448-2

Product specification

Characteristics	Unit	Value	Method*
Appearance		Clear Liquid, free from suspended matter	Visual
Colour	APHA/Hazen	<= 50	AM 018
Odour		Faint characteristic	AM 074
Acidity as fumaric acid	%	<= 0.01	AM 006
Water content	%	<= 0.1	AM 023
Ester content	%	>= 98.0	AM 999

* Internal methods available upon request.

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Typical properties

Characteristics	Unit	Value
Boiling point @ 8 mmHg	°C	208
Density @ 20 °C	g/ml	0.941
Melting Point	°C	-48
Flash point (closed cup)	°C	185

Main applications

Main applications for DOF are:

- Dioctyl fumarate is employed as an internal plasticiser by polymerisation and copolymerisation with vinyl acetate, vinyl chloride, acrylates and styrene;
- Dioctyl fumarate is used to prepare dioctyl sodium sulfosuccinate and as additive in the lubricant oil.

Handling

Packaging:

Steel drums 195 kg net.

Bulk

Storage:

The packaged material shall be kept into its original packaging, in cool and well ventilated place, neither under rain nor in wet places, away from flames and heating sources. The bulk material shall be stored in stainless steel tanks, under nitrogen blanketing; for a long lasting quality the material shall be kept at ambient temperature (ideally not above 30°C) and away from any flame or concentrated heat source

Shelf life:

3 years from production date.

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