

## Technical data sheet

# Dibutyl fumarate (DBF)

Version: February 2009

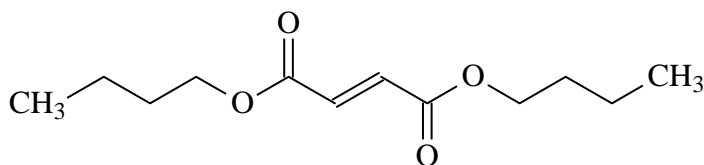
### Synonyms

Dibutyl fumarate

### Formula

$C_{12}H_{20}O_4$

### Structural formula



**Molecular weight:** 228.29

### CAS number

105-75-9

### EINECS number

203-327-9

### 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	140
Density @ 20 °C	g/ml	0.98
Melting Point	°C	-15
Flash point (closed cup)	°C	90

## Main applications

Main applications for DBF are:

- Dibutyl fumarate is used as plasticizer;
- Dibutyl fumarate is used as raw material of surfactant and coating.

## Handling

Packaging: Steel drums 200 kg net.  
IBC 1000 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.

*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.*