

## Technical data sheet

# Diethyl phthalate (DEP)

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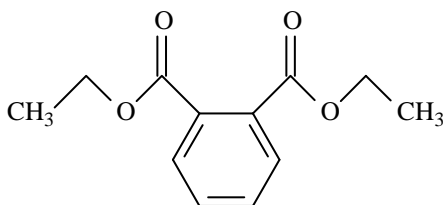
### Synonyms

Diethyl phthalate

### Formula

$C_{12}H_{14}O_4$

### Structural formula



**Molecular weight:** 222.24

**CAS number:** 84-66-2

**EINECS number:** 201-550-6

### Product specification

Characteristics	Unit	Value	Method*
Appearance		Clear Liquid, free from suspended matter	Visual
Colour	APHA/Hazen	<= 20	AM 018
Odour		Very mild	AM 074
Acidity as Phthalic acid	%	<= 0.01	AM 006
Water content	%	<= 0.05	AM 023
Ester content	%	>= 99.0	AM 999

\* Internal methods available upon request.



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## Typical properties

Characteristics	Unit	Value
Boiling point @ 760 mmHg	°C	296
Density @ 20 °C	g/ml	1.12
Melting Point	°C	-40
Flash point (closed cup)	°C	152

## Main applications

Main applications for DEP are:

- DEP is mainly used as solvent for fragrances not soluble in water;
- DEP is also used as first choice plasticizer for cellulose acetate;
- In the Pharmaceutical industry, DEP is used as a plasticizer in polymers device and in tablets coating.

## Handling

Packaging: Steel drums 235 kg net.  
IBC 1050 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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