

Technical Data Sheets

# **Diethyl phthalate (DEP)**

Version: February 2009

## Synonyms Diethyl phthalate

# $\frac{Formula}{C_{12}H_{14}O_4}$

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



#### **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 fragrancies 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.