

# Diethyl Phthalate Technical Data Sheet

Product name: Diethyl Phthalate (DEP)

## I Chemical formula and molecular weight

- Chemical formula:  $C_{12}H_{14}O_4$
- Molecular weight: 222.24
- CAS No.: 84-66-2

## II Properties and applications

- Colorless, transparent oily liquid with slight aromatic odour, viscosity 13 c.p. (20°C), refractive index 1.499~1.502 (20°C).
- Good compatibility with most of ethylenic and cellulosic resins. Plasticizer for cellulosic resins granting a good softening and long-lasting property at low temperature. When combined with DMP, it may increase the water-durability and elasticity of the product.
- Also used as a perfume dilluent, emolient, fixing agent in Gas chromatography, etc..

## III Quality standard

Specification	Index
Color (Pt-Co) No. ≤	15
Acidity (calculated as phthalic acid), % ≤	0.010
Density (20°C), g/cm <sup>3</sup>	1.118-1.122
Content (GC), % ≥	99.5
Water content, % ≤	0.10

## IV Package and storage

- net weight 50 kg/plastic drum, 230kg/iron drum, 250 kg/plastic drum, 1200kg/IBC drum.
- Stored at dry, shady, ventilated place. Prevented from collision and sunrays, rain-attack during handling and shipping.
- Can be ignited under excessive heat, flame or oxidizing agent.