



Bis(2-ethylhexyl) phthalate Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Bis(2-ethylhexyl) phthalate

Catalog No.: CFN99277

Cas No.: 117-81-7

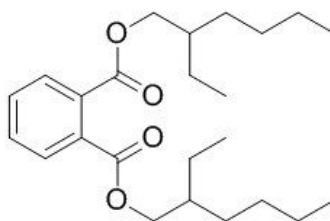
Purity: > 98%

M.F: C₂₄H₃₈O₄

M.W: 390.6

Physical Description: Oil

Synonyms:



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The heartwood of *Pterocarpus angolensis*.

[Biological Activity or Inhibitors]

Bis(2-ethylhexyl) phthalate (DEHP) is a compound widely used in plastics technology to

impart flexibility to rigid polymers, DEHP has oral toxicity during pregnancy and suckling in the Long-Evans rat.^[1]

Bis(2-ethylhexyl) phthalate and Perinatal butyl benzyl phthalate (BBP) can induce antiandrogenic effects in Spague-Dawley (SD) rats.^[2]

Bis(2-ethylhexyl) phthalate has toxic or endocrine disrupting effects on aquatic species in water bodies. ^[3]

Bis-(2-ethylhexyl) phthalate is the most commonly used plasticizing agent for the widely used plastic polyvinylchloride (PVC), is an ubiquitous environmental contaminant, many workers have demonstrated its exceedingly low acute toxicity, while results from chronic exposure studies have been mixed; in 1982 the National Toxicology Program reported a significantly increased incidence of hepatocellular carcinoma in rats and mice exposed to high doses of DEHP over a period of two years.^[4]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[5]

Mobile phase: Methanol -H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 275 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Arcadi F A, Costa C, Imperatore C, *et al. Food Chem. Toxicol.*, 1998, 36(11):963-70.

[2] Parks L G, Ostby J S, Lambright C, *et al. Biol. Reprod.*, 1999, 60:153-153.

- [3] Cao X S, Meng X Z, Ren S K, *et al.* *Environ. Sci. Technol.*, 2011, 34(12):217-20.
- [4] Griffiths W C, Camara P, Lerner K S. *Ann. Clin. Lab. Sci.*, 1985, 15(2):140-51.
- [5] Liu X P, Huang W, Wu X L, *et al.* *Chinese Journal of Health Laboratory Technology*, 2007, 17(9):1563-4.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com