

Tributyl phosphate

Chemical composition: tri-n-butyl phosphate (TBP),
phosphoric acid tri-n-butyl ester

CAS-Reg.- No.: 126-73-8

Typical properties:

Appearance:	clear, colorless, low viscosity liquid with a specific odor.
TBP content*:	min. 99.00 %
n - butanol *:	max. 0.10%
Acid value*:	max. 0.05 mg KOH/g
Water content*:	max. 0.20 %
Hazen colour value*:	max. 50
Refractive index n_D 20°C*:	1.423 - 1.425
Density at 20°C*:	0.975 - 0.980 g /cm ³
Viscosity at 20°C:	3.80 mPa·s

* specified properties

Product description

Tributyl phosphate is a very strong, polar solvent.

Applications

TBP is used in the production of solutions of synthetic resins and natural rubber. In both cellulose based plastics and synthetic resins, TBP is used as a flame-retarding plasticizer.

TBP is employed as a pasting agent for pigment pastes.

Due to the limited influence of temperature on the viscosity of TBP, it also serves as an important component in the manufacture of hydraulic fluids for aircraft.

As a very strong wetting agent, TBP is used in the textile industry and in the field of adhesives.

As a neutral extractant it is able to extract both acids and metal cations.

Storage

Where material is stored under the appropriate conditions, the product can be stored for a period of at least two years in the tightly sealed original packaging.



Packaging

Road tanker / ISO tank container, 1000 kg IBC container, 200 kg metal drum.

Materials

Metallic materials such as stainless steel and aluminum, as well as ceramic apparatus components have proved suitable. Materials suitable for seals are polyethylene, poly - tetrafluoro ethylene (PTFE) and graphite.

Strong swelling may occur when plastic (PVC in particular) and rubber components are used as well as upon contact with the interior coatings of vessels. Testing of the resistance is therefore recommended.

Product safety

Relevant safety data and references as well as possibly necessary warning labels are to be found in safety data sheet.

Hazard label

harmful

Peculiarity

In accordance with the international "Responsible Care" initiative, LANXESS Deutschland GmbH requires that a declaration of End Use is completed even where not explicitly stipulated by legislation.

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