

Tri-iso-Butyl Phosphate

Chemical composition	tri-iso-butyl phosphate (TiBP), phosphoric acid tri-n-butyl ester
CAS-Reg. - No.	126-71-6

Typical properties

Appearance:	clear, colorless, low viscosity liquid with a specific odor
TiBP content*:	min. 99,00 %
Acid value*:	max. 0,05 mg KOH/g
Water content*:	max. 0,20 %
Hazen colour value*:	max. 50
Refractive index n_D 20°C:	1.4195
Density at 20°C*:	0.960 - 0.970 g /cm ³
Viscosity at 20°C:	5,00 mPa·s

* specified properties

Product description

Tri iso butyl phosphate is a very strong, polar solvent.

Applications

TiBP is mainly used as an antifoam in various aqueous systems where it has the ability to both destroy foam and act as a foam inhibitor.

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

TiBP is employed as a pasting agent for pigment pastes.

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

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



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.

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

1000 kg IBC container, 200 kg metal drum

Product safety

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

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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