Tributyl phosphate (TBP)
Plastic Additives / Specialities

Description
Tributyl phosphate is a very strong, polar solvent.

Chemical composition
Tri-n-butyl phosphate (TBP)

CAS Registry Number
126-73-8

Typical properties
- Appearance: clear, colourless liquid
- TBP content: > 99.0 %
- N-butanol content: < 0.10 %
- Acid value: < 0.05 mg KOH/g
- Water content: < 0.2 %
- Hazen colour value: < 50
- Refractive index $n_D$ at 20°C: 1.423 – 1.425
- Density at 20°C: 0.975 – 0.980 g/cm³
- Viscosity at 20°C: 3.8 mPa·s

Storage
If stored correctly and kept in the original sealed container, the product has a shelf life of at least 24 months. Metallic materials such as stainless steel and aluminum, as well as ceramic apparatus components have proved suitable. Materials suitable for seals are polyethylene, polytetrafluoro 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.

Applications
TBP is used in hydraulic fluids, as strong wetting agent in the textile industry and as antifoam agent. In addition it is applied as neutral extractant in the extraction of acids or metal cations.

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