Dibutyl phosphate (DBP)
Plastic Additives / Specialities

Description
Dibutyl phosphate is a strong acid, that is soluble in all common organic solvents such as aliphatic, aromatic and chlorinated hydrocarbons, as well as in alcohols.

Chemical composition
Di-n-butyl phosphate (DBP)

CAS Registry Number
107-66-4

Typical properties
- Appearance: clear, colourless liquid
- DBP content: > 97.0 %
- Acid value: 259 - 267 mg KOH/g
- Water content: < 0.30 %
- Hazen colour value: < 100
- Density at 20°C: 1.055 – 1.061 g/cm³

Storage
If stored correctly and kept in the original sealed container, the product has a shelf life of at least 24 months. Stainless steel and glass apparatus components as well as plastics such as polyethylene and polytetrafluoro ethylene (PTFE) have proved suitable. Materials suitable for seals are polytetrafluoro ethylene (PTFE) and graphite. Normal steel is unsuitable because of its reaction with dibutyl phosphate which results in the formation of hydrogen. Testing of the resistance is therefore recommended.

Applications
Dibutyl phosphate is used as a precursor for antistatics, as a mould release agent in polyurethane applications and, as a non-volatile acidic catalyst soluble in organic media.

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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