

**【English】**

Triphenylphosphine

**【Chinese】**

Triphenylphosphine

**【English name】**

'LGC' (4006)

PHOSPHORUSTRIPHENYL

PP-360

TPP

TRIPHENYL PHOSPHOROUS

TRIPHENYLPHOSPHORUS

TRP

phosphine, triphenyl

Phosphine, triphenyl-

Phosphoris triphenyl

Trifenylfosfin

Triphenylphosphane

triphenyl-phosphane

Triphenylphosphide

triphenyl-phosphin

Triphenyphosphine

Dehydrocholic acid CP2000

Trihenylphosphine

TRIPHENYLPHOSPHINE, REAGENTPLUS, 99%

TRIPHENYLPHOSPHINE REAGENTPLUS (TM) 99%

CAS 603-35-0

**【Chinese name】**

Triphenyl (yl)phosphorus

Triphenylphosphine

Triphenylphosphine

triphenylamine

triphenyl

trisphenol phenyl ester

Triphenylphosphine, FLAKE

Triphenylphosphine, 99+%

Triphenylphosphine, POWDER

**【EINECS number】**

210-036-0

**【Molecular formula】**

C18H15P

**【MDL number】**

MFC00003043

**【Molecular weight】**

262.29

**【MOL file】**

Pesticide intermediates: Pesticide intermediates: Organophosphorus pesticides

physical and chemical properties

**【Appearance properties】**

White crystals.

**【Solubility】**

Insoluble in water, slightly soluble in ethanol, soluble in benzene, acetone and carbon tetrachloride.

**【melting point】**

79–81 ° C(lit.)

**【Boiling point】**

377 ° C(lit.)

**【Density】**

1.132

**【Vapor density】**

9 (vs air)

**【Vapor Pressure】**

5 mm Hg (20 ° C)

**【Flash point 】**

181 ° C

**【Storage conditions 】**

Store at RT.

**【Water solubility】**

Insoluble

**【Merck】**

14,9743

**【Detection method】**

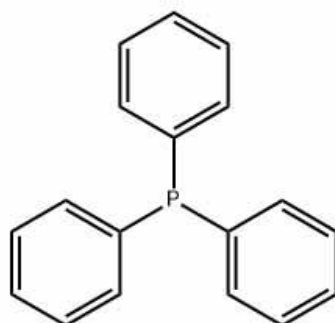
GC

**【BRN】**

610776

Physical and chemical properties

**【Appearance properties】**



三苯基磷

Triphenylphosphine



This product is colorless to light yellow monoclinic crystal when it is lower than room temperature, and it is colorless to light yellow transparent oily liquid when it is higher than room temperature. It has a pungent odor and is irritating to the skin. (0.1MPa),  $n_{25D}$  1.589, relative density 1.184 (20°C), miscible with organic solvents such as alcohol, ether, benzene and acetone, insoluble in water.

**【Refractive Index】**

1.6358

**【Solubility】**

water: soluble 0.00017 g/L at 22° C

**【form】**

Crystals, Crystalline Powder or Flakes

**【proportion】**

1.132

**【colour】**

White

**【Hydrolysis Sensitivity】**

Application field

**【Use 1】**

It is used in organic synthesis, and also used as a raw material for polymerization

initiators, antibiotic drugs, such as clindamycin

#### 【Use 2】

In pesticides, it can be used to synthesize organophosphorus intermediate trimethyl phosphite by transesterification, and then a series of organophosphorus pesticides such as dichlorvos, monocrotophos and phosphoramine can be obtained. In addition, it can be used as synthetic rubber and resin. Stabilizer, antioxidant of polyvinyl chloride, used as raw material for synthesizing alkyd resin and polyester resin.

#### 【Use 3】

It is used for organic synthesis, polymerization initiator, raw material of antibiotic drug clindamycin, and standard sample for determination of phosphorus in organic trace analysis.

storage:

It should be kept dry during storage, and the temperature should be above 10 °C. Crystals are precipitated below 10 °C, and the use effect will not be affected after heating and melting.

transportation:

Store in an airtight container in a cool, dry place. Storage areas must be locked and keys must be handed over to technical experts and their assistants for safekeeping. The storage place must be kept away from oxidants and away from water sources.

General-purpose plastic and plastic-sprayed iron drums or glass containers, and transported in accordance with general chemical management regulations.

Package:

Packaging: It is advisable to use glass containers, plastic containers, and metal utensils that are resistant to chlorine corrosion, and store them in an airtight container. Store in a cool, dry place and keep container tightly closed to avoid contact with oxides. Do not breathe dust and avoid contact with skin and mucous membranes. Smoking, eating and drinking are prohibited in the workplace. After work, shower and change. Store contaminated clothing separately and wash before reuse. Practice good hygiene.

## **Contact Us**

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