

# Cosutin Industrial CO., Limited

UNIT B, 10/F LEE MAY BUILDING 788-790 NATHAN ROAD  
MONGKOK, KOWLOON, H.K  
TEL.: +852 21395855 FAX: +852 81673777

## TPPI (Triphenyl Phosphite)

### GENERAL DESCRIPTION

Triphenyl phosphite is a colorless or light yellow transparent liquid a little phenol odour taste. It does not dissolve in water and easily dissolve in organic solvent such as alcohol, ether benzene, acetone etc. It may separate free phenol if it met moisture and has absorbility for ultraviolet. This colourless viscous liquid is the ester of phosphorous acid and phenol. It is used as a ligand in organometallic chemistry. Nickel complexes of this ligand are homogeneous catalysts for the hydrocyanation of alkenes. TPPI can be used in various PVC products, PE, PP, ABS, SBS and other products, and it can be used as pesticide intermediate, as stabilizer.

### SPECIFICATIONS

Appearance	Colorless to yellowish transparent liquid
Color(Pt-Co)	≤40
Density	1.183-1.192
Refractive index	1.585-1.590
Solidification point°C	19-24
Oxide(Cl-%)	≤0.20

### PROPERTIES

#### TPPI

CAS Number: 101-02-0

Risk class: ADR/RID: 9

IMDG: 9

IATA: 9

Appearance: Liquefied

Color/Colour: Colorless/colourless to yellowish transparent

Odor/Odour: Not available

#### Molecular Structure:

Formula: C<sub>18</sub>H<sub>15</sub>O<sub>3</sub>P

Molecular Weight: 310.29

EINECS: 202-908-4

Synonyms:

Triphenyl Phosphite (TPPi); Triphenyl phosphite; Triphenylphosphite white yellow xtl

Melting Point: 22-24°C-lit

Boiling Point: 220°C

Vapor Pressure: 5hPa

Flash point: 210°C

Explosion Limits: Not available

Packing: it is packed in galvanized iron drum with net weight 200kg.

### Application

- 1) PVC industry: cable, windows and door, sheet, decorating sheet, agricultural membrane, floor membrane etc.
- 2) Other synthetic material industry: used as light-heat stabilizer or oxide-heat stabilizer.
- 3) Other industry: complex liquid and ointment compound stabilizer etc.