



## PRODUCT DATA SHEET

### Triphenyl Phosphite (TPP)

#### Description

Triphenyl phosphite (TPP) is an organophosphorus compound widely used as a stabilizer, antioxidant, and chemical intermediate. It is a clear to pale yellow liquid with a characteristic aromatic odor. TPP is soluble in organic solvents and finds extensive applications in polymer, lubricant, and chemical industries.

#### Typical Properties

Parameter	Specification
Chemical Formula	C <sub>18</sub> H <sub>15</sub> O <sub>3</sub> P
Molecular Weight	310.28 g/mol
Appearance	Clear to pale yellow liquid
Color	50 Apha Max
Specific Gravity @ 20°C	1.180 – 1.186
Acid Value mgKOH/gm	0.5 Max
Refractive Index @ 25°C	1.580 – 1.589
Phosphorous Content %	9.8 – 10.1
Freezing point °C	22-24
Boiling Point	220 °C (decomposes)
CAS Number	101-02-0
EC Number	202-908-4

#### Applications

- Stabilizer and secondary antioxidant in polymers such as PVC, polyethylene, and polypropylene.
- Improves color stability, transparency, and heat resistance of plastics.
- Intermediate for producing plasticizers, flame retardants, and agrochemicals.
- Antiwear and extreme pressure (EP) additive in lubricants and greases.
- Antioxidant in Rubbers, Adhesives, Paint and Coatings.
- Chemical reagent in organic synthesis and coordination chemistry.

#### Safety & Handling

Triphenyl Phosphite may hydrolyze to release phenol, which is toxic and corrosive. It should be handled with appropriate personal protective equipment (PPE) such as gloves, goggles, and protective clothing. Use in well-ventilated areas and store in tightly sealed containers away from moisture and heat. Refer to the product Safety Data Sheet (SDS) for detailed guidance.

The information given in this document is only a recommendation, believed to be reliable, and is given in good faith but without warranty. Our advice does not release users from the obligation of checking its validity. The user should test the product to ascertain the suitability for the intended use. Specified properties mentioned in this document are based on our historical production performance and these properties or the whole document is subject to change without any prior notice, at our sole discretion. We are under no obligation to recall earlier issued documents.