

WESTON™ TPP phosphite ester

Phosphite Antioxidant

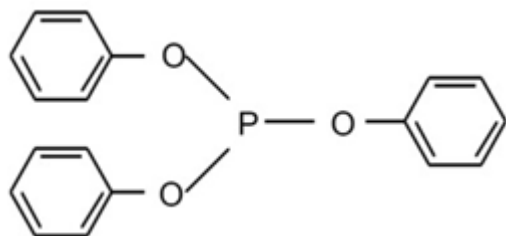
Description

WESTON™ TPP phosphite ester is a versatile aryl phosphite which can be used as a stabilizer in many types of polymers including: adhesives, styrenics, engineering thermoplastics, polyesters (to regulate viscosity and improve color stability), polyolefins (as a catalyst adjuvant), polyurethanes (to prevent scorching during curing and improve color stability), coatings, epoxies, and PVC where regulatory approval for food contact is not required.

Chemical Structure

Triphenyl Phosphite $C_{18}H_{15}O_3P$

Chemical Abstract Number: 101-02-0



Typical physical properties of WESTON™ TPP phosphite ester

Appearance	Clear liquid
Specific Gravity @ 25°C/15.5°C	1.180-1.186
Acid No. (mg KOH/g)	0.20 max
Refractive Index @ 25°C (77°F)	1.5880-1.5900
Phosphorus Content (%)	10
Color (APHA, Pt/Co)	50 max
Formula Weight	310
Flash Point (Pensky-Martens Closed Cup)	146°C (295°F)
Viscosity cps @ 38°C (100°F)	10.2
Density (g/ml @ 25°C) (lb./gal. @ 25°C)	1.18 9.8
Vapor Pressure	5 mm Hg @ 205°C (401°F)
Solubility	Soluble in most common aprotic organic solvents. Insoluble in water

Storage and Handling

The product may be stored at least one (1) year in sealed containers. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat could decrease product shelf life. Containers should be kept sealed when not in use. Open drums should be used as soon as possible (within a maximum of 4 months) to avoid hydrolysis, especially during humid weather.

For additional handling and toxicological information consult the SI Group Material Safety Data Sheet.