

WESTON™ TLP phosphite ester

Phosphite Antioxidant

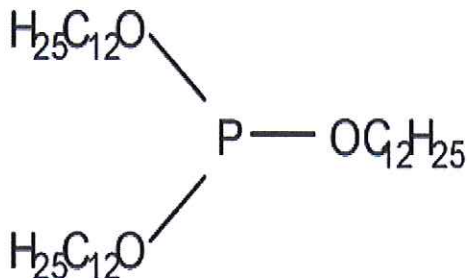
Description

WESTON™ TLP phosphite ester is a trialkyl phosphite which can be used as a lubricant additive to improve antifriction and antiwear characteristics. It also functions as a sulfur deactivator. **WESTON™ TLP phosphite ester** may be used as a stabilizer in PVC, polyester fibers and in polypropylene when regulatory approval for food contact is not required.

Chemical Structure

Tri-lauryl Phosphite $C_{36}H_{75}O_3P$

Chemical Abstract Number: 3076-63-9



Typical physical properties of WESTON™ TLP phosphite ester

Appearance	Clear liquid@60°C
Specific Gravity @ 25°C/15.5°C	0.866-0.881
Acid No. (mg KOH/g)	0.05 max
Refractive Index @ 25°C (77°F)	1.4530-1.4580
Phosphorus Content (%)	5.3
Color (APHA, Pt/Co)	50 max
Formula Weight	586
Flash Point (Pensky-Martens Closed Cup)	165.56°C (330°F)
Viscosity cps @ 38°C (100°F)	16.0
Density (g/ml @ 25°C) (lb./gal. @ 25°C)	0.88 7.3
Vapor Pressure	5 mm Hg @ 190°C (374°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.