

# WESTON™ TDP phosphite ester

## Phosphite Antioxidant

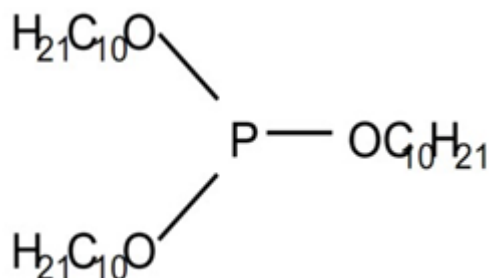
### Description

**WESTON™ TDP phosphite ester** is a trialkyl phosphite which is useful as a secondary stabilizer in ABS, polyethylene terephthalate, PET fibers, coatings, lubricants, PVC, polycarbonate and polyurethanes. It can also be used in polyolefins where regulatory approval for food contact is not required.

### Chemical Structure

Triisodecyl Phosphite  $C_{30}H_{63}O_3P$

Chemical Abstract Number: 25448-25-3



### Typical physical properties of WESTON™ TDP phosphite ester

Appearance	Clear liquid
Specific Gravity @ 25°C/15.5°C	0.884-0.984
Acid No. (mg KOH/g)	0.05 max
Refractive Index @ 25°C (77°F)	1.4530-1.4610
Phosphorus Content (%)	6.2
Color (APHA, Pt/Co)	50 max
Formula Weight	502
Flash Point (Pensky-Martens Closed Cup)	160°C (320°F)
Viscosity cps @ 38°C (100°F)	11.6
Density (g/ml @ 25°C) (lb./gal. @ 25°C)	0.89 7.4
Vapor Pressure	5 mm Hg @ 180°C (356°F)
Solubility	Soluble in most common aprotic organic solvents.

**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.**