

WESTON™ PDDP phosphite ester

Phosphite Antioxidant

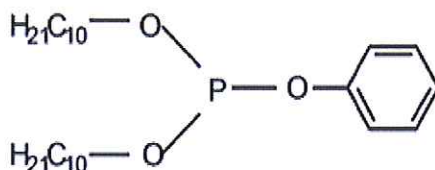
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Description

WESTON™ PDDP phosphite ester is an alkyl-aryl phosphite which can be used as a color and processing stabilizer in polycarbonate, polyurethanes, ABS polymers, coatings and PET fiber where regulatory approval for food contact is not required. It can also be used as a secondary stabilizer to improve color and heat stability in PVC.

Chemical Structure

Phenyl Diisodecyl Phosphite $C_{26}H_{47}O_3P$
 Chemical Abstract Number: 25550-98-5



Typical physical properties of WESTON™ PDDP phosphite ester

Appearance	Clear liquid
Specific Gravity @ 25°C/15.5°C	0.938-0.947
Acid No. (mg KOH/g)	0.05 max
Refractive Index @ 25°C (77°F)	1.4780-1.4810
Phosphorus Content (%)	7.1
Color (APHA, Pt/Co)	50 max
Formula Weight	438
Flash Point (Pensky-Martens Closed Cup)	182°C (360°F)
Viscosity cps @ 38°C (100°F)	12.0
Density (g/ml @ 25°C) (lb./gal. @ 25°C)	0.94 7.8
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.

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