

WESTON[®] DPDP phosphite ester

Phosphite Antioxidant

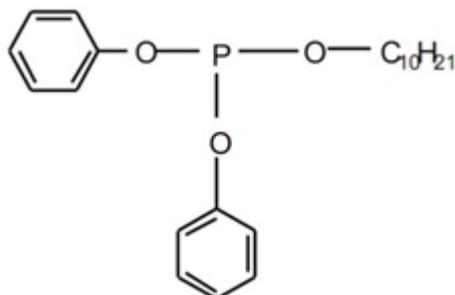
Description

WESTON[®] DPDP phosphite ester is an alkyl-aryl phosphite which is used as a color and processing stabilizer in polycarbonate, polyurethanes, ABS polymers, and coatings where regulatory approval for food contact is not required. It is also used as a secondary stabilizer in polyvinyl chloride.

Chemical Structure

Diphenyl Isodecyl Phosphite C₂₂H₃₁O₃P

Chemical Abstract Number: 26544-23-0



Typical physical properties of WESTON[®] DPDP phosphite ester

Appearance	Clear liquid
Specific Gravity @ 25°C/15.5°C	1.022-1.032
Acid No. (mg KOH/g)	0.05 max
Refractive Index @ 25°C (77°F)	1.5160-1.5190
Phosphorus Content (%)	8.3
Color (APHA, Pt/Co)	50 max
Formula Weight	374
Flash Point (Pensky-Martens Closed Cup)	154°C (310°F)
Viscosity cps @ 38°C (100°F)	10.3
Density (g/ml @ 25°C) (lb./gal. @ 25°C)	1.03 8.6
Vapor Pressure	5 mm Hg @ 170°C (338°F)
Solubility	Soluble in most common aprotic organic solvents

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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 Addivant[™] Material Safety Data Sheet.

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