

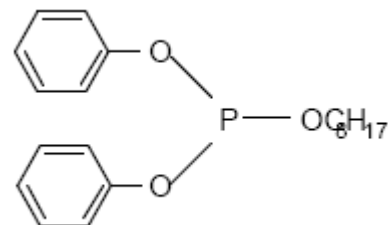
## Weston<sup>®</sup> EHDP

Liquid Phosphite Heat Stabilizer

## Technical Information

Effective: 1-September-2010

**Weston EHDP** is a versatile alkyl-aryl phosphite which can be used as a stabilizer for numerous polymers, including PVC.



### Typical Properties of Weston EHDP

Chemical Name	Ethylhexyl Diphenyl Phosphite
Chemical Abstract Number	15647-8-2
Formula	C <sub>20</sub> H <sub>27</sub> O <sub>3</sub> P
Formula Weight:	346
Wt. % Phosphorus	9.0
Appearance	Clear Liquid
Color (Pt-Co)	50 max.
Acid No. (mg KOH/g)	0.05 max.
Refractive Index @ 77°F (25°C)	1.5176-1.5246
Viscosity, cps @ 100°F (38°C)	6.5
Density @ 25°C, g/ml (lb/gal)	1.04 (8.7)
Vapor Pressure @ 5 mm Hg	374°F (190°C)
Flash Point (Closed Cup)	360°F (182°C)
Solubility	Soluble in most common aprotic organic solvents; insoluble in water.

These values are typical only and do not constitute a product specification

### Features

**Weston EHDP** phosphite is a versatile alkyl-aryl phosphite which can be used as a stabilizer PVC and in many other types of polymers. In PVC, **Weston EHDP** provides a low-volatility liquid which synergistically improves the stability of mixed-metal stabilizers in PVC formulations.

In non-PVC applications, **Weston EHDP** can be used as a color and processing stabilizer in ABS, polycarbonate, polyurethane, coatings, and PET fiber where regulatory approval for food contact is not required.

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### Recommendations

In flexible formulations, use 1.0 phr of **Weston EHDP** in conjunction with 1.5 to 2.0 phr of **Mark 6708** and 5.0 to 10.0 phr of **Drapex 4.4** or **Drapex 6.8** epoxy plasticizer.

### Typical Formulation

Ingredients	Parts per hundred of resin
Homopolymer resin	100.00
DOP	40.0
Phosphate Ester	10.0
<b>Drapex 4.4</b>	5.0 – 10.0
<b>Mark 6708</b>	1.0 – 2.0
<b>Weston EHDP</b>	1.0 – 3.0

### Storage and Handling

*Please refer to the Material Safety Data Sheet for additional information on handling and storage*