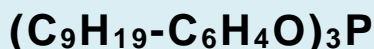


DOVERPHOS HIPURE 4-HR PLUS

Trisnonylphenyl Phosphite

Doverphos HiPure 4-HR+ is trisnonylphenyl phosphite (TNPP) with approximately 1.00% triisopropanolamine and less than 0.1% residual nonyl phenol. It is an aryl phosphite with high molecular weight and low phosphorus content. **Doverphos HiPure 4-HR+** is an effective liquid phosphite heat stabilizer for a wide variety of applications. These include polyolefin, acrylics, adhesives, elastomers, nylon, polycarbonate, polyurethanes, polystyrene, PVC, coatings, ABS, and polyethylene terephthalate. The effectiveness of **Doverphos HiPure 4-HR+** is enhanced by the addition of other stabilizers like hindered phenols. Typical use levels range from 0.05 to 3.00% for most applications. **Doverphos HiPure 4-HR+** is sanctioned under FDA regulations for use in many applications.



Trisnonylphenyl Phosphite

TYPICAL PROPERTIES

Property	Typical Result
Appearance	Clear Liquid*
Molecular Weight	688
Phosphorus, %	4.3
Density, lb/gal	8.2
Viscosity, cps @ 25°C	8,600

*Below 60°C appearance is hazy.

Above 60°C haze will disappear, leaving a clear product.

SPECIFICATIONS

Parameter	Specification	Test Method
Color, APHA	75 max	ASTM D1209
Acid Number, mgKOH/gm	0.2 max	ASTM D3242
Refractive Index, 25°C	1.5265-1.5290	ASTM D1218
Specific Gravity, 25°C/15.5°C	0.980-0.997	ASTM D1298
Free Nonylphenol, %	<0.1	DP260

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