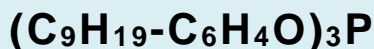


DOVERPHOS 4-HR

Trisnonylphenyl Phosphite

Doverphos 4-HR is trisnonylphenyl phosphite (TNPP) with approximately 0.75% triisopropanolamine. It is an aryl phosphite with high molecular weight and low phosphorus content. **Doverphos 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 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 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	4,900

SPECIFICATIONS

Parameter	Specification	Test Method
Color, APHA	75 max	ASTM D1209
Acid Number, mgKOH/gm	0.3 max	ASTM D3242
Refractive Index, 25°C	1.5250-1.5280	ASTM D1218
Specific Gravity, 25°C	0.980-0.992	ASTM D1298
Free Nonylphenol, %	4 max	DP260

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