



Triphenyl Thiophosphate T309

●Product Introduction

Product Name: Triphenyl Thiophosphate

CAS Number: 597-82-0

Molecular Formula: $C_{18}H_{15}O_3PS$

Molecular Weight: 342

It is obtained by reacting with phenol and phosphorus trichloride through sulfurization, neutralization, washing and crystallization. in lubricating oils, esters. Adding a small amount of this agent can improve its extreme pressure, anti-wear, anti-oxidation, hydrolysis safety, and anti-emulsification. Main agent of grade lubricating oil and ester.

●Equivalent Products: Ciba-Geigy Irgalube TPPT

●Product Quality Characteristics

Item	Quality Index	Test Method
Appearance	White or light yellow powder	Visual Inspection
Content	99%	SH/T0296
Melt Point*, °C	51-54	GB/T617
P Content, wt%, \geq	8.9	SH/T 0269
S Content, wt%, \geq	9.3	SH/T 0303
Copper corrosion (100°C, 3h)	≤ 1	GB/T5096

*This is for end melt point.

This test sample is 3% T309 dissolved in 500SN base oil.

●Recommended dosage

Ashless Antiwear Hydraulic Oil: 0.8%-1.2%;

Oil Film Bearing Oil: 0.8%

Freon Refrigerant: 0.3%

●Storage & Package

1. It should be stored in a well-ventilated and dry warehouse, and should not be damp or polluted.
2. The use temperature should not exceed 100 °C
3. Packing: 25kgs/bag or 25, 40kgs/cardboard drum.