

TRIPHENYL THIOPHOSPHATE T309

● 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. It is widely used in lubricant, esters, etc. Adding a small amount of this additive can improve its extreme pressure, anti-wear, anti-oxidation, hydrolysis safety, and anti-emulsification.

● **Equivalent Products:** Irgalube TPPT

● Specifications

Item	Quality Index	Test Method
Appearance	White or Light Yellow Powder	Visual
Content	99%	SH/T 0296
Melt Point*, °C	51-54	GB/T 617
Phosphorus, wt%, ≥	8.9	SH/T 0269
Sulfur, wt%, ≥	9.3	SH/T 0303
Copper Corrosion (100°C, 3h)	≤1	GB/T 5096

*This is for end melt point. This test sample is 3% T309 dissolved in 500SN base oil.

● Recommended Treat Rate (wt%)

Freon Refrigerant: 0.3

Oil Film Bearing Oil: 0.8

Ashless Antiwear Hydraulic Oil: 0.8-1.2

● Package, Handle & Storage

- The use temperature should not exceed 100°C.
- Packed in 25kgs/bag or 25, 40kgs/cardboard drum.
- It should be stored in a well-ventilated and dry warehouse.