



CERTIFICATE OF ANALYSIS

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1. Identification

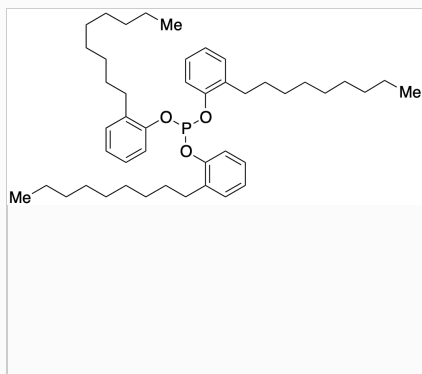
Catalogue Number: P049950

CAS Number: 26523-78-4

Product: Tri(nonylphenyl) Phosphite

Synonym: Tri(monononylphenyl) phosphite; Weston TNPP; Weston 399; Wytox 312; Alkanox 70; Antage TNP; Antioxidant 1178; Antioxidant TNPP; Crystol EPR 3400; Doverphos 4; Doverphos HP 4HR; Doverphos HiPure 4HR; Doverphos Highpure 4; Irgafos TNPP; Mark 1178; Naugard TNPP; Nonylphenyl phosphite; Naugard TNPP; Nonylphenyl phosphite; Sumilizer TNP

Structure:



Molecular Formula:

C₄₅H₆₉O₃P

Molecular weight:

689

Source of Product:

N/A

Solubility:

Chloroform (Slightly),
Methanol (Slightly)

Lot Number: 10-TAH-184-1

Purity: N/A

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

| Tests: | Specifications: | Results: |
|------------|-----------------------|----------------------------|
| Appearance | Colourless Thick Oil | Clear Colourless Thick Oil |
| NMR | Conforms to Structure | Conforms |
| P NMR | Conforms to Structure | Conforms |
| MS | Conforms to Structure | Conforms |

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

| Reviewed By | Reviewed By | C of A Approved By | Test Date | Retest Date |
|-------------|---------------|--------------------|-----------|-------------|
| Henry Tieu | Toni Rantanen | Chanell Chu | 12/6/2023 | 12/4/2027 |