

Trixylyl Phosphate

Aromatic phosphate ester for selected fire-resistant fluid and polymer formulation development.

CAS No. 25155-23-1	EC / List No. 246-677-8	Transport Class 9 — Environmentally hazardous
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Product Information

Trixylyl phosphate is an aromatic phosphate ester based on xylenyl groups. The industrial material may contain an isomer distribution; representative molecular formula C₂₄H₂₇O₄P and molecular weight 410.44 g/mol describe the phosphate component. It is distinct from triphenyl phosphate and tricresyl phosphate.

Specifications

Parameter	Specification
Appearance	Clear, colorless liquid
Colour	≤200 APHA
Acid value	≤0.2 mg KOH/g
Water content	≤0.1 %
Flash point	≥230 °C
Specific gravity at 20°C	1.14–1.16
Refractive index at 25°C	1.550–1.560
Dynamic viscosity at 25°C	80–110 mPa·s
Phosphorus content, calculated	7.8 %

Phosphorus content is calculated. Flash-point test method is not specified in the source; viscosity is dynamic, at 25°C.

Typical Properties

Property	Typical Value
Molecular formula	C ₂₄ H ₂₇ O ₄ P (representative component)
Molecular weight	410.44 g/mol (representative component)

Applications

Fire-resistant fluid development: Aromatic phosphate component for selected hydraulic-fluid development. Verify viscosity, seal compatibility, system cleanliness and the required finished-fluid qualification.

Lubricant additive systems: Phosphate ester for selected lubricant and grease formulations. Evaluate compatibility, oxidation behavior and performance under the intended operating conditions.

Polymer plasticization and flame-retardant formulation: Additive for compatible vinyl, cellulosic or rubber systems. Evaluate migration, processing, mechanical properties and complete-formulation fire performance.

Packaging / Storage

Item	Information
Packing	230 kg steel drums
Storage	Store sealed in a cool, dry, ventilated place with secondary containment. Protect from prolonged heating, moisture and strong oxidizers. Keep containers clearly labelled and restrict access to trained personnel.
Handling	Use controlled liquid transfer and engineering controls for mist exposure. Wear suitable chemical-resistant gloves, protective clothing and eye protection. Prevent repeated contact and ingestion; avoid exposure during pregnancy and keep food out of work areas. High-pressure fluid injection requires emergency medical attention.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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