



Phosphate (potassium salt)

[Chemical Composition] alcohol (ether), phenol ether phosphate (potassium salt)

[Type] anion

[Specification]

Fatty alcohol ether phosphate MOA-3P, MOA-9P, phenol ether phosphate TX P -4, phenol ether phosphate TX P -10, isotridecyl phosphate, lauryl phosphate MA24P

Fatty alcohol ether phosphate potassium salt MOA-3PK, phenol ether phosphate potassium salt NP-4PK, phenol ether phosphate potassium salt NP-10PK, isotridecyl ether (6) phosphate potassium salt, lauryl phosphate potassium salt MA24PK

(Special specifications can be customized)

[Technical data]

Specification	Appearance (25°C)	Solid content	pH Value (2% Aqueous solution)
Fatty alcohol ether phosphate MOA-3P	Colorless or light yellow transparent liquid	≥95%	≤3.5*
Fatty alcohol ether phosphate MOA-9P	Colorless or light yellow transparent liquid	≥95%	≤3.5*
Phenol ether phosphate TXP-4	Colorless or light yellow transparent liquid	≥95%	≤3.0*
Phenol ether phosphate TXP-10	Colorless or light yellow transparent liquid	≥95%	≤3.0*
Isotridecyl phosphate	Colorless or light yellow transparent liquid	≥95%	≤3.0*
Lauryl Phosphate MA24P	White to pale yellow cream block	≥97%	≤3.0*
Fatty alcohol ether phosphate potassium salt MOA-3PK-40	Colorless to pale yellow paste	≥40%	6~8
Fatty alcohol ether phosphate potassium salt MOA-3PK-70	Colorless to pale yellow paste	≥70%	6~8
Phenol ether phosphate potassium salt NP-4PK	Light yellow sticky	50.0±2.0	5.0~7.0
Phenol ether phosphate potassium salt NP-10PK-40	Yellow transparent paste	40.0±2.0	7.0~9.0
Phenol ether phosphate potassium salt NP-10PK-80	Yellow transparent paste	70~80	7.0~9.0
Isotridecyl ether (6) phosphate potassium salt	Light yellow sticky	80.0±2.0	5.0~7.0
Lauryl Phosphate Potassium Salt MA24PK-30	Colorless to pale yellow viscous	30.0±2.0	6.5~7.5
Lauryl Phosphate Potassium Salt MA24PK-50	Colorless to pale yellow paste	50.0±2.0	6.5~7.5

(* 10g/L, 10% Determination in aqueous ethanol solution)


[Performance and Application]

Product Name	Performance
Fatty alcohol ether phosphate MOA3P	<p>1. Excellent water solubility, decontamination, emulsifying, lubricating, washing, dispersing, antistatic and anti-rust properties, excellent electrolyte compatibility, stability to heat and alkali. It is resistant to acid, alkali, hard water, inorganic salt, high temperature, good biodegradability and low irritation. At the same time having a strong degreasing power.</p> <p>2. Antistatic property, smoothness, wettability and corrosion inhibition, and used as a raw material for improving the spinnability in the processing of synthetic fibers. It is hygroscopic and has good antistatic properties at low temperatures. Widely used as an antistatic agent in chemical fiber oils. Used as industrial alkaline cleaning agent and dry cleaning agent, metal processing working fluid, organophosphorus pesticide emulsifier, main component of textile oil agent.</p> <p>3. Good cosolvent, emulsion polymerization emulsifier, pigment dispersant, cosmetic emulsifier, oil well drilling mud lubrication dispersant, paper industry deinking agent; leather industry degreasing agent, leveling agent, etc.</p> <p>4. Good decontamination, used to prepare high-efficiency non-toxic detergent. Widely used in the daily chemical industry and one of the main components in shampoos and various cosmetics.</p> <p>5. High activity and stability can be obtained at a pH of 6~7. The recommended dosage is 3~12%.</p>
Fatty alcohol ether phosphate potassium salt MOA3PK	<p>1, Withstand strong alkali, good cleansing ability in concentrated alkali, soluble in organic solvents, soluble in water,</p> <p>2. Strong antistatic, emulsification, smoothing and softening properties; used as a washing enhancer; used to prepare dry cleaning agent; used as an emulsifier added in metal cleaning agent; an emulsifier for emulsion polymerization; in the production of pesticides and cosmetics Added emulsifier, as well as anti-corrosion and antistatic agents.</p>
Fatty alcohol ether phosphate MOA9P	<p>1, Anionic, often used with anionic, nonionic and zwitterionic, excellent cold resistance, soluble in organic solvents, acid, alkali, high temperature, good stability; excellent decontamination, emulsification, run Wet, disperse, antistatic and other properties, strong degreasing power. Used in household and industrial detergents, such as preparation of dry cleaning agents, porcelain surfaces, glass cleaners, metal cleaners.</p> <p>2. Auxiliaries for textile industry: such as preparation of spinning oil, penetrant, scouring agent, mercerizing agent;</p> <p>3, Additives for the paper industry: such as the preparation of deinking agent;</p> <p>4. Auxiliaries for leather industry: such as degreaser and leveling agent;</p> <p>5, Other industrial additives: such as organophosphorus pesticide emulsifier, metal cutting lubricants, plating solution additives.</p>
Isotridecyl phosphate	Excellent antistatic property, smoothness and softness, improving the hygroscopicity of the fiber, and can better adjust the dynamic friction coefficient between the fibers.
Isotridecyl ether (6) phosphate	<p>1. Safe and non-irritating: The product is similar in structure to natural phospholipids. It is extremely mild in nature and has almost no irritation to skin and eyes. It is an ideal cream emulsifier.</p> <p>2, Excellent emulsification, solubilization and dispersion properties: can emulsify a variety of oil phases including silicone oil.</p> <p>3, Low surface tension, rich and delicate foam, moderate</p>



decontamination and washing: when used, it produces rich and delicate milky foam, easy to clean, the skin feels excellent after cleaning, refreshing and clean, not tight, comfortable.

4, Excellent moisturizing properties: when cleansing the skin, can give the skin a soft, lubricious and refreshing feeling. It has antistatic and soft effect, and is also suitable for shampoo, hair additive and fabric fiber finishing agent.

5. Acid and alkali resistance and salt: The phosphate ester is stored at pH=2 for 12 months, and its decomposition amount is less than 10%; if it is stored under neutral or slightly acidic for one year or longer, it will not deteriorate.

6. Good biodegradability: The biodegradation of alkyl phosphate is similar to that of sodium alkyl sulfate, which can be decomposed into carbon dioxide and phosphate ions. For example, the biodegradation rate of bisphosphonyl phosphate after 10-15 days is close to 100. %, while sodium dodecylbenzene sulfonate is less than 20%.

7. Low toxicity: Phosphate potassium salt is a low-toxic substance. The LD50/(mg/kg) for mice is 74000, and the LC50/(mg/kg) for fish is 3400~12800.

Use and dosage:

1. Uses: It is especially used to prepare foaming facial cleansers and foam cleansing eosin which are widely used in the market. It is also suitable for formulating high-grade and low-irritating sanitary products such as shampoo, foam facial cleanser and bathing. Liquid, hand sanitizer (one of the main ingredients of Kao® Biore Facial Cleanser), mild baby care products, children's bath and shampoo.

2, MAPK anti-hard water is slightly worse than other anionic surfactants. Therefore, it is necessary to pay attention to the addition of anti-hard water agent (such as EDTA) or hard water-resistant surfactant (such as sulfobetaine) in combination with it. Excellent performance.

3, The recommended dosage: foam cleanser: 10 ~ 50%, shower gel 8 ~ 15%.

【Packing, Storage and Transportation】

Packed in 200Kg iron drum and 50Kg plastic drum.

Store and transport as normal chemicals.

Store in a dry, well-ventilated place. The warranty period is two years.

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