

丙二醇苯醚 LXBG-PPH
Propylene Glycol Phenyl Ether LXBG-PPH

【Chemical Description】

Propylene Glycol Phenyl Ether (LXBG-PPH) is an organic compound that serves as a versatile solvent and additive in various applications, particularly in the coatings and paints industry.

English name: 1-Phenoxy-2-Propanol
Structural formula: C₆H₅OCH₂CH₂CH₂OH
Molecular weight: 152.2



【Product Feature】

- Versatility: LXBG-PPH can be used in a wide variety of applications across different industries, making it a valuable ingredient in formulations.
- Improved Performance: It enhances properties such as adhesion, flow, leveling, and drying time, contributing to high-quality end products.
- Lower VOCs: When used in water-based formulations, LXBG-PPH can help reduce the overall volatile organic compound (VOC) emissions, making products more environmentally friendly.
- Compatibility: LXBG-PPH exhibits good compatibility with a wide range of other chemicals and additives, allowing formulators to create customized solutions.

【Physical Properties】

Name	Appearance	Boiling Point °C	Volatization Rate BuAC=1.0	Solubility in Water	Relative Density	PH Value	Color APHA Value	Active Ingredient
LXBG-PPH	Colorless transparent liquid	242.7	≤0.01	1.1	1.045-1.065	7±2	<50	≥ 99

【Application Recommendation】

- Water-Based Architectural and Industrial Coatings
As a film-forming aid in latex paints to promote fusion of polymer particles and enhance coating performance.
- Textile Dyeing
Used as a carrier solvent to facilitate uniform dispersion and penetration of dyes into fibers, improving dyeing efficiency.
- Ink Industry
Suitable for ballpoint pens, felt-tip pen inks, stamp pad inks, and textile printing pastes to ensure ink fluidity and drying properties.
- Paint Strippers
Used in formulating paint removers to effectively dissolve old coatings for easy stripping.
- Latex Adhesives
Serves as a film-forming aid to enhance adhesive cohesion and bonding strength.
- Metal Working Fluids
Used to formulate uniform and stable metal working fluids, improving system rheology, reducing viscosity, and enhancing machining efficiency.

【Performance Introduction】

LXBG-PPH is a colorless, transparent liquid with a pleasant sweet fragrance. Its nontoxic and eco-friendly nature significantly reduces VOC in coatings. As an efficient film-forming additive for water-based latex and dispersions, it's particularly effective in gloss and semigloss paints.

Acting as a strong solvent for polymers like vinyl acetate, acrylic, and styrene-acrylic, LXBG-PPH has low water solubility. This allows it to be fully absorbed by latex particles, creating a continuous film. This enhances the latex paint's coalescence and color development while ensuring good storage stability. Compared to common film-forming additives like TEXANOL (or domestic alcohol ester-12), LXBG-PPH achieves the same film properties with 30-50% less usage. Its strong coalescing ability doubles film-forming efficiency, significantly reducing production costs. Added at 3.5-5% of the emulsion, it can lower the minimum film-forming temperature (MFT) to -1°C.

After optimization, LXBG-PPH (E) and (T) can be directly added at any paint-making stage, simplifying the process and improving stability in systems like pure acrylic emulsions. It's recommended to add LXBG-PPH before the emulsion or during pigment grinding for better compatibility and stability. Generally, for pure acrylic emulsions, the addition amount is 3.5-6%; for vinyl-acrylic emulsions, 2.5-4.5%; and for styrene-acrylic systems, 2-4%.

【Suggested Addition Amount】

- For pure acrylic emulsion: The addition amount is 3.5-6%.
- For vinegar-acrylic emulsion: The addition amount is 2.5-4.5%.
- For phenylpropylene: The addition amount is 2-4%

【Packaging and Storage】

- 50kg plastic drums, 200kg plastic drums
- This product is non-dangerous goods and should be stored in a cool and dry place.