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Bis(2-ethylhexyl)phosphoric Acid

[Bis(2-ethylhexyl)Phosphate], $[\text{CH}_3(\text{CH}_2)_3\text{CH}(\text{C}_2\text{H}_5)\text{CH}_2]_2\text{HPO}_4$ 322.42 CAS RN[®]: 298-07-7.—Light yellow, viscous liquid. Insoluble in water; freely soluble in chloroform and in ethyl acetate. Refractive index: about 1.443. Specific gravity: about 0.997.

Assay: Dissolve about 250 mg, accurately weighed, in 50 mL of dimethylformamide, add 3 drops of a 1 in 100 solution of thymol blue TS in dimethylformamide, and titrate with 0.1 N sodium methoxide VS to a blue endpoint. Perform a blank determination, and make any necessary correction. Each mL of 0.1 N sodium methoxide is equivalent to 32.24 mg of $(\text{C}_8\text{H}_{17})_2\text{HPO}_4$. Between 95% and 105% is found.

Solubility: One volume dissolves in 9 volumes of chloroform to yield a clear solution, and 1 volume dissolves in 9 volumes of ethyl acetate to yield a clear solution.

Color: A 1 in 100 solution in chloroform exhibits an absorptivity of not more than 0.03 at 420 nm.

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
BIS(2-ETHYLHEXYL)PHOSPHORIC ACID	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

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