



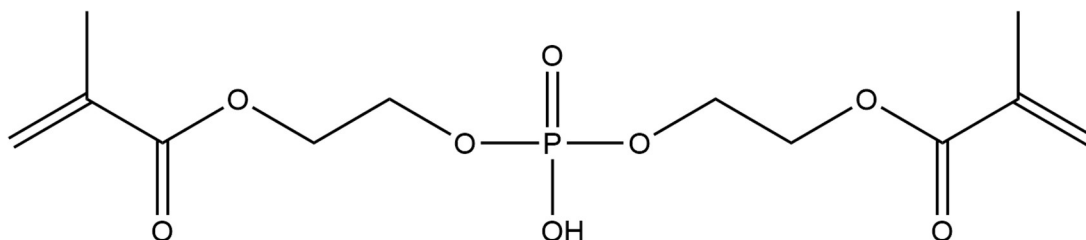
## **Bis HEMA Phosphate (BMEP)** **FP 5030**

### **General**

BMEP is a unique liquid monomer designed to promote adhesion in dental applications, adhesives, and coatings. It can be combined with acrylic resins, unsaturated polyesters, and other UV curable resins.

The functional phosphate group lends itself to improved adhesion on polar surfaces and may even provide some corrosion-resistant and flame-retardant properties. Methacrylate functionality helps to prevent migration within the coating or adhesive media. BMEP provides excellent adhesion improvement for acrylic polymers to metal, glass, and mineral surfaces.

### **Chemical Structure**



### **Product Information**

Product Type:	Monomer/Adhesion Promoter; Coating Corrosion Inhibitor
CAS Number:	32435-46-4
Product Name:	Bis [2-(methacryloyloxy) ethyl] phosphate
Synonyms:	BMEP; Bis HEMA-P; Bis(methacryloyloxyethyl) hydrogen phosphate;
Applications:	Dental Restoration; Coatings; Adhesives
Key Features:	Improved Adhesion
Shelf Life:	12 months, indoors, at 25 +/- 5°C (Ideal 2 - 8°C)

## Typical Properties

Appearance:	Clear/water white
Molecular Weight:	322.12 g/mole
Density @ 25°C:	1.28 g/cc
Acid Value (avg):	190
MeHQ (avg):	225 ppm

## Safety and Handling

Keep the container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. Handle in a well-ventilated area with suitable protective equipment.

Detailed information is provided in the SDS.

For additional information visit our website [www.hampfordresearch.com](http://www.hampfordresearch.com).