

## DePHOS 4AL

**DePHOS 4AL** is a low to moderate foaming anionic phosphate ester in free acid form. Suggested for use as a lubricant, corrosion inhibitor, and emulsifier in metalworking applications. Highly effective for aluminum machining applications.

### SPECIFICATIONS

Appearance @ 25°C:	Clear, colorless to pale yellow liquid
Color (Gardner):	2 max.
% Moisture:	2 max.
Acid Value II (pH 9.0 -9.5):	155 - 175
pH (5% in 50/50 IPA/DW):	3 max.

**SOLUBILITY** DePHOS 4AL is dispersible in water and oils. It is soluble in aliphatic and other solvents as well as alcohols.

### TYPICAL PROPERTIES

Density @ 25°C ~1.03 g/ml

- Low to moderate foam
- Hydrotrope
- Good Wetting
- Corrosion inhibitor
- Lubricant for aluminum machining
- Emulsifier

### APPLICATIONS

- Metalworking formulations
- Rolling oils
- Emulsion Cleaner
- Alkaline cleaners

*Continued*

Amtec Center • 6421 Congress Avenue • Boca Raton, FL 33487 • (561) 994-9696 • FAX (561) 994-9995  
[www.DeForestEnterprises.com](http://www.DeForestEnterprises.com) • [info@DeForestent.com](mailto:info@DeForestent.com)

The information and suggestions given are drawn from data we believe to be reliable, but in all cases the user should check and confirm the suggestions and results in his/her own use before proceeding further. DeFOREST Enterprises, Inc. offers no warranties other than to guarantee the products are manufactured to specifications and cannot assume any liability or risk involved in the use of our products since these conditions of use are beyond our control. None of the suggestions or recommendations constitute freedom from any patents that may be existent in the field or be issued.

**DATA**

**DePHOS 4AL** exhibits low to moderate foam, surface tension reduction, and is a good hydrotrope for nonionic surfactants in alkaline systems.

