



PURIFIED ACID PRODUCTS

Product Name: **Phosphoric Acid**

Grade: **Food**

Assay: **75 - 85% H₃PO₄**

Order Codes: **FG75, FG80, FG85**

Source: Cincinnati, OH / Aurora, NC

Alternate Names: Ortho Phosphoric Acid, Phos Acid, White Acid

SPECIFICATIONS			
COMPONENT	75%	80%	85%
H ₃ PO ₄ , %	75.0 - 75.5	80.0 - 80.5	85.0 - 85.5
Specific gravity @ 25/15.5°C	1.574 - 1.580	1.629 - 1.635	1.686 - 1.692
Arsenic, as As, ppm	3 max.	3 max.	3 max.
Cadmium, as Cd, ppm	3 max.	3 max.	3 max.
Chloride, as Cl, ppm	10 max.	10 max.	10 max.
Color, APHA	10 max.	10 max.	10 max.
Fluoride, as F, ppm	10 max.	10 max.	10 max.
Heavy metals, as Pb, ppm	5 max.	5 max.	5 max.
Iron as Fe, ppm	10 max.	10 max.	10 max.
Lead, as Pb, ppm	3 max.	3 max.	3 max.
Sulfate, as SO ₄ , ppm	250 max.	250 max.	250 max.

PHYSICAL COMPOSITION			
COMPONENT	75%	80%	85%
Melting point, approx.	0°F (-18°C)	41°F (5°C)	70°F (21°C)
Density, lbs/gal	13.1	13.6	14.1
Specific heat, cal/gm -°C	0.542	0.518	0.493
Viscosity, cp @ 25°C	21.5	29.0	43.5
Appearance	Water-white liquid, colorless, odorless		

TYPICAL TRACE ELEMENTS			
Aluminum, as Al	<10 ppm	Sodium, as Na	<30 ppm
Calcium, as Ca	<20 ppm	Nickel, as Ni	<1 ppm
Chromium, as Cr	<1 ppm	Silicon, as Si	<1 ppm
Copper, as Cu	<1 ppm	Titanium, as Ti	<5 ppm
Magnesium, as Mg	<5 ppm	Vanadium, as V	<1 ppm
Manganese, as Mn	<1 ppm	Zinc, as Zn	1 ppm
Potassium, as K	<8 ppm		

