



Product Name: **Phosphoric Acid**

Grade: **Food**

Assay: **75 - 85% H<sub>3</sub>PO<sub>4</sub>, Low Sulfate**

Order Codes: **FG75LS, FG80LS, FG85LS**

**PURIFIED ACID PRODUCTS**

SDS No.: **234 or 235**

Source: Cincinnati, OH / Aurora, NC

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

SPECIFICATIONS			
COMPONENT	75%	80%	85%
H <sub>3</sub> PO <sub>4</sub> , %	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.
Iron as Fe, ppm	10 max.	10 max.	10 max.
Lead, as Pb, ppm	3 max.	3 max.	3 max.
Sulfate, as SO <sub>4</sub> , ppm	100 max.	100 max.	100 max.

PHYSICAL PROPERTIES			
PROPERTY	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	<5 ppm	Sodium, as Na	<100 ppm
Calcium, as Ca	<25 ppm	Nickel, as Ni	<1 ppm
Chromium, as Cr	<1 ppm	Silicon, as Si	<5 ppm
Copper, as Cu	<1 ppm	Titanium, as Ti	<5 ppm
Magnesium, as Mg	<6 ppm	Vanadium, as V	<1 ppm
Manganese, as Mn	<1 ppm	Zinc, as Zn	<1 ppm
Potassium, as K	<8 ppm		

