



Product Name: **Phosphoric Acid**
 Grade: **Technical**
 Assay: **75 - 85% H₃PO₄**
 Order Codes: **TG75, TG80, TG85**
 SDS No.: **229 or 227**

PURIFIED ACID PRODUCTS

Source: Cincinnati, OH / Aurora, NC

Alternate Names: Ortho Phosphoric Acid, Phos 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
Chloride, as Cl, ppm	25 max.	25 max.	25 max.
Color, APHA	10 max.	10 max.	10 max.
Iron, as Fe, ppm	10 max.	10 max.	10 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
Color/Appearance	Water-white liquid, colorless, odorless		

TYPICAL TRACE ELEMENTS			
Aluminum, as Al	<10 ppm	Manganese, as Mn	<1 ppm
Arsenic, as As	<3 ppm	Potassium, as K	<8 ppm
Calcium, as Ca	<40 ppm	Sodium, as Na	<300 ppm
Cadmium, as Cd	<3 ppm	Nickel, as Ni	<1 ppm
Chromium, as Cr	<1 ppm	Silicon, as Si	<5 ppm
Copper, as Cu	<1 ppm	Titanium, as Ti	<8 ppm
Lead, as Pb	<1 ppm	Vanadium, as V	<1 ppm
Magnesium, as Mg	<10 ppm	Zinc, as Zn	1 ppm

