



85% Phosphoric Acid H₃PO₄

DESCRIPTION

Phosphoric Acid 85% Food Grade is a concentrated, high-purity form of phosphoric acid that contains 85% pure phosphoric acid and 15% water by weight. It meets the safety and purity standards set by food safety authorities for use in food processing. It is an acidulant that adds tartness and adjusts pH in foods and beverages, a preservative that helps inhibit microbial growth, and a flavor enhancer that provides a sharp taste in processed foods. While hazardous, it is relatively non-volatile and stable at elevated temperatures. It is also milder than Hydrochloric Acid, Nitric Acid, or Sulphuric Acid.

General Description	Origin	CHINA
85% Phosphoric Acid	E number	Formula H ₃ PO ₄
Grade	E338	
Food Grade	EINECS	CAS number 7664-38-2
Molecular weight	231-633-2	
97.995		

PRODUCT CHARACTERISTICS

Physicochemical properties	Unit	Standard	Test Result
H ₃ PO ₄	ω/%	≥ 85	85.1
Volatile acids	mg/kg	≤ 10	8
NaNO ₃	mg/kg	≤ 5	5
Sulphates as (CaSO ₄)	mg/kg	≤ 500	65
Fluorine (F)	mg/kg	≤ 10	6
Arsenic (As)	mg/kg	≤ 1	<1
Lead (Pb)	mg/kg	≤ 1	<1
Cadmium (Cd)	mg/kg	≤ 1	<1
Mercury (Hg)	mg/kg	≤ 1	<1
Chromium (Cr)	mg/kg	≤ 1	<1
Nickel (Ni)	mg/kg	≤ 1	<1
Chlorine (Cl ⁻)	mg/kg	≤ 50	5
Density (at 20°C)	g/ml	≥ 1.685	1.691
Color	APHA	≤ 8-10	8



Typical Uses:

- Acidulant
- Agricultural Chemicals
- Animal Feed
- Beverages
- Cheese
- Corrosion Inhibitors
- Cottage Cheese
- Flocculant
- Food Additive
- Jellies & Preserves
- Lard & Shortening
- Mouthwash
- Potable Water Treatment
- Teeth Whitening
- Toothpaste
- Water Treatment
- Yeast

Synonyms: H_3PO_4 , H_3PO_4 85%, Orthophosphoric Acid

Appearance: Colorless Heavy Syrupy Liquid

CAS#: 7664-38-2