

# Hi-Grade Phosphoric Acid

**Product name:** Phosphoric acid 75%, 80%, 85%, Food grade

**Synonyms:** Orthophosphoric acid; White phosphoric acid

## Product:

**Formula:**  $H_3PO_4$

**Molecular weight:** 98.00

**CAS No.** 7664-38-2

**EINCS No.** 231-633-2

**EEC classification** E 338

**Appearance:** Clear colorless viscous liquid

## Analysis

Analyte	Specification Limits
Assay (as $H_3PO_4$ ), % (w/w)	74-76
	79-81
	84-86
Arsenic (As), ppm	2 max
Fluoride (F), ppm	10 max
Heavy Metals, ppm	10 max
Lead (Pb), ppm	1.0 max
Cadmium (Cd), ppm	1.0 max
Mercury (Hg), ppm	0.5 max

**Shelf life:** 5 years in tightly closed container at temperature above product freezing point (See typical properties below)

**Packaging:** 30, 50, 100 or 370 kg net, HDPE drums.

**Main usage:** Food processing- acidifier, sequestrant, synergist for antioxidant  
Pharmacopoeia- processed aid, dental cement  
Drinking water treatment

## Typical properties:

	75	80	85
Concentration of $H_3PO_4$ , % (w/w)	75	80	85
$P_2O_5$ content, % (w/w)	54.32	57.94	61.56
Freezing point <sup>*</sup> , °C	-20	0	21
Density, g/ml (25°)	1.573	1.628	1.685
Weight of acid, containing 1 MT of $P_2O_5$ , tons	1.841	1.726	1.625
Volume of acid, containing 1 MT of $P_2O_5$ (25°), m <sup>3</sup>	1.171	1.061	0.964

<sup>\*</sup> Usually the real freezing point is lower because of super-cooling without crystallizing.

## Kosher and Halal product

Phosphoric acid complies with the requirements of the current US Food Chemicals Codex, EC Commission Directive, and FAO/WHO report.

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