

Phosphoric acid 75%, 80%, 85%

Technical Grade

Synonyms: Orthophosphoric acid; White phosphoric acid.

Product: Formula H_3PO_4
Molecular Weight 98.00
CAS No. 7664-38-2

Appearance: Clear colorless viscous liquid

Analysis:

Analyte	Typical	Specification Limits
Assay (as H_3PO_4), % (w/w)	75	74 – 76
	80	79 – 81
	85	84 - 86
Iron (Fe), ppm	<5	5 max
Cooper (Cu), ppm	<5	5 max
Zinc (Zn), ppm	<10	10 max

Package: 15, 50, or 100 kg net, HDPE drums

Main Usage: Manufacture of inorganic phosphates, fertilizers, detergents.
 Metal treatment.
 Water treatment.
 Acid catalyst.

Storage: Phosphoric acid is stored as strong mineral acid in tightly closed container at temperature above product freezing point (see *Typical Properties* below)

Typical properties:

Concentration of H_3PO_4 , % (w/w)	75	80	85
P_2O_5 content, % (w/w)	54.32	57.94	61.56
Freezing point*, °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 ³	1.171	1.061	0.964

* - usually the real freezing point is lower because of super-cooling without crystallizing

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