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SPECIFICATION OF PHOSPHORIC ACID - Tech Grade

DESCRIPTION: Clear, Colourless and Odourless syrupy liquid

Characteristic	SCL Specification	Result	Method
Orth phosphoric acid H ₃ PO ₄ ' w/wmin	86.0	86.30	IS-798-1986 (Method A)
P ₂ O ₅ ' % w/w, min	62.3	62.50	*
Specific gravit y at 20 C min.			
Iron as Fe, ppm, max	1.700	1.7039	Sp.Gr. Bottle

Calcium as Ca, ppm, max			
Magnesium as Mg, ppm, max	10.0	2.90	(A-4)
Heavy metals as Pb, ppm, max			
Chloride as Cl, ppm, max	80.0	2.90	AAS
Fluoride as F, ppm, max			
Sulphate as SO ₄ , ppm, max	5.0	1.85	AAS

SPECIFICATION - PHOSPHORIC ACID FOOD GRADE

S.NO	Characteristic	Specification
1	Description	It is clear colorless, odorless, viscous liquid
2	Identification	Highly acidic even in high dilutions.
3	Solubility	Miscible in water and ethanol
4	Specific gravity	The specific gravity at 25 °C / 25 °C of phosphoric acid containing 85% H ₃ PO ₄ is 1.71
5	Purity as H ₃ PO ₄ , % by mass, Min.	85.0
6	Fluoride, mg/kg, Max.	10
7	Total heavy metals (as Pb), mg/kg, Max	10

8	Lead (as Pb), mg/kg, Max.	5
9	Arsenic (as As), mg/kg, Max	3

USES

1. Technical grade phosphoric acid may be used to produce variety of phosphates, electrolyte treatment.
2. liquids or chemical treatment liquids, refractory mortar with phosphoric acid and inorganic coherent. It is
3. also used as a catalyst, drying agent and cleaner. In coating industry, it is used as a rust-proof coating for metals

SPECIFICATION OF PHOSPHORIC ACID - Tech Grade

DESCRIPTION: Clear, Colourless and Odourless syrupy liquid

Characteristic	SCL Specification	Result	Method
Orth phosphoric acid H_3PO_4 w/w min	86.0	86.30	IS-798-1986 (Method A)
P2O5' % w/w, min	62.3	62.50	*
Specific gravity at 20 °C min.			
Iron as Fe, ppm, max	1.700	1.7039	Sp.Gr. Bottle
Calcium as Ca, ppm, max			

Magnesium as Mg, ppm, max	10.0	2.90	(A-4)
Heavy metals as Pb, ppm, max			
Chloride as Cl, ppm, max	80.0	2.90	AAS
Flouride as F, ppm, max			
Sulphate as SO ₄ , ppm, max	5.0	1.85	AAS

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