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SPECIFICATION OF PHOSPHORIC ACID - Tech Grade

DESCRIPTION : Clear, Colourless	and Odourless syrupy liquid
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Characteristic	SCL Specification	Result	Method
Orthophosphoric acid H3PO4' 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.	1.700	1.7039	Sp.Gr. Bottle
Iron as Fe, ppm, max	10.0	2.90	(A-4)
Calcium as Ca, ppm, max	80.0	2.90	AAS
Magnessium as Mg, ppm, max	5.0	1.85	AAS
Heavy metals as Pb, ppm, max	10.0	10	(A-10)
Chloride as Cl, ppm, max	20.0	12.0	(A-5)
Flouride as F, ppm, max	100.0	79.0	lon Selective electrode
Sulphate as SO4, ppm, max	300.0	151.0	(A-6.2)

SPECIFICATION - PHOSPORIC ACID FOOD GRADE

SI No.	Characteristic	Specification
1	Description	It is clear colorless, odourless, 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 o C / 25 o 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