

**Description**

Chemical formula	H3PO4
Molecular Weight	98.0
International Codification	
CAS No	7664-38-2
E No	E-338
EINECS No	231-633-2
Customs Duty No	28 09 20 00

**Product Characteristics**

Appearance	:	Colourless, odourless, transparent syrupy liquid
Grades (1)		
H3PO4 %(-0.3, +0.5)		75.0 80.0 81.5 85.0
Method		
PLC 10 – Paar Density		
PLC 11		
PLC 20 – Skalar		

Chemical Properties	Unit	Specification	Typical analysis	Method
F	ppm	10max	7	PLC – 14 Direct potentiometry
Fe	ppm	10 max	7	PICP 01 – ICP*
As	ppm	0.5 max	0.3	PICP 04 -ICP*
Hg2	ppm	0.01 mx	< 0.01	PICP 01 – ICP*
Pb	ppm	0.5 max	< 0.1	PICP 01 – ICP*
Cd	ppm	0.2 max	< 0.1	PICP 01 – ICP*
Cu	ppm	1 max	0.3	PICP 01- ICP*
Ni	ppm	2 max	0.4	PICP 01 – ICP*
Heavy metals (as Pb)	ppm	5 max	2.5	PLC 08 – FCC test
Cl	ppm	20 max	< 5	PLC 04 – Trimetry
SO4	ppm	350 max	230	PICP 01 – ICP*

**Physical Properties**

ICP – Inductively Coupled Plasma

<b>H<sub>3</sub>PO<sub>4</sub> Concentration%</b>	<b>P<sub>2</sub>O<sub>5</sub>%</b>	<b>Density g/ml @ 20°C</b>	<b>Freezing Point oC</b>	<b>Boiling Point °C</b>	<b>Viscosity cP @ 30°C.</b>	<b>Weight of acid For 1 mT P<sub>2</sub>O<sub>5</sub> (mT)</b>	<b>Volume of acid For 1 mT P<sub>2</sub>O<sub>5</sub>( m3)</b>
75.0	54.3	1.576	- 20	135	16	1.842	1.169
80.0	58	1.631	+4	150	21	1.724	1.057
81.5	59	1.648	+7	152	25	1.695	1.029
85.0	61.5	1.689	+21	158	32	1.626	0.963



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**Tuticorin:**