	LEONID CHEMICALS PVT. LTD.				
	FINE CHEMICAL				
Department: Quality Control		Document No: LCPL/QSD/QAD/11		SOP No.: SOP/QC/11-P106	
SPECIFICATION : PERCHLORIC ACID 70% AR					
Issue date	23/04/2018	Review date	22/04/2023	Location	All Units
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#### PRODUCT DETAILS

1	Molecular Formula	HClO <sub>4</sub>
2	Product code	P106
3	Molecular weight	100.46
4	CAS No	7601-90-3
5	Risk Statement No	5-8-35
6	Safety Statement No	23-26-36-45
7	UN No.	UN1873


HClO<sub>4</sub>

#### PACKING DETAILS

	Product code	Pack size
1	P10630	500 mL
2	P10632	2.5 L

#### PRODUCT SPECIFICATION

SL. No.	TEST PARAMETERS	LIMITS
1	Description	A clear, colourless liquid with a pungent odour.
2	Miscibility	Miscible with water forming clear and colourless solution.
3	Assay	Not less than 70.0%
4	Weight per mL at 20°C	About 1.67 g
5	Residue on ignition (as SO <sub>4</sub> )	Not more than 0.003%
6	Chlorate (ClO <sub>3</sub> )	Not more than 0.0012%
7	Chloride (Cl)	Not more than 0.0001%
8	Free chlorine	Not more than 0.00005%
9	Nitrogen compounds (N)	Not more than 0.002%
10	Phosphate (PO <sub>4</sub> )	Not more than 0.0002%
11	Silicate (SiO <sub>2</sub> )	Not more than 0.0001%
12	Sulphate (SO <sub>4</sub> )	Not more than 0.0004%
13	Cadmium (Cd)	Not more than 0.000005%
14	Copper (Cu)	Not more than 0.00001%
15	Iron (Fe)	Not more than 0.0001%
16	Lead (Pb)	Not more than 0.000005%
17	Manganese (Mn)	Not more than 0.000002%
18	Potassium (K)	Not more than 0.002%
19	Silver (Ag)	Not more than 0.00001%
20	Sodium (Na)	Not more than 0.002%

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SL. No.	TEST PARAMETERS	LIMITS
21	Zinc (Zn)	Not more than 0.000005%

#### SAFETY SYMBOLS



Flammable



Toxic



Corrosive