

### CERTIFICATE OF ANALYSIS

QUALITY CONTROL LABORATORY of SDFCL Mfg. Unit No.2  
 Survey No.299, Poicha(R), -391 780, Taluka : Savli, District : Vadodara , Gujarat

**Testing started on** : 19/05/2022  
**Testing completed on** : 19/05/2022  
**Date of Reporting** : 06/06/2022

<b>Name Of The Product</b>	<b>PERCHLORIC ACID 70% UR“UNIVERSAL REAGENT” Passes For AR DIAMOND INDUSTRY</b>		
<b>Batch No.:</b>	<b>E22A/0522/1805/32</b>	<b>Product Code</b>	<b>20176UR</b>
<b>Mfg. Date</b>	<b>MAY.-2022</b>	<b>Reassessment Date</b>	<b>APR.-2027</b>
<b>Specification Reference</b>	<b>20176URSP00</b>	<b>Lab ID</b>	<b>RM/2223/05046</b>
<b>CASR No.</b>	<b>7601-90-3</b>	<b>Certificate No.:</b>	<b>180522/05</b>
<b>Molecular Formula</b>	<b>HCIO<sub>4</sub></b>	<b>Molecular Weight</b>	<b>100.46</b>

S.NO.	TEST	SPECIFICATIONS	RESULTS	TEST METHOD REF.
1	Description	A clear liquid colour not more than 10 Hazen units.	Complies	Ph Eur 6.0 <sup>th</sup> edition
2	Solubility	Mix 50 ml with 50 ml of water. The solution is clear and colourless with no opalescence with no separate phases.	Complies	Ph Eur 6.0 <sup>th</sup> edition
3	Minimum Assay (By acidimetric )	70.0%	70.51%	ACS 11 <sup>th</sup> edition, 2016
4	Wt.per mt 20°C	About 1.67 g	1.690 g	Ph Eur 6.0 <sup>th</sup> edition
5	Substance insoluble in ethanol	Passes test	Complies	In house development

**MAXIMUM LIMITS OF IMPURITIES :**

6	Residue on ignition (as sulphate)	0.003%	0.0015%	Ph Eur 6.0 <sup>th</sup> edition
7	Chloride (Cl)	0.0003%	0.00017%	ACS 2000
8	Free chlorine	0.00005%	<0.00005%	In house development
9	Nitrogen compound (N)	0.001%	0.0004%	In house development
10	Phosphate & Silicate (SiO <sub>2</sub> )	0.0005%	0.0002%	In house development
11	Sulphate (SO <sub>4</sub> )	0.001%	0.00056%	In house development
12	Cadmium (Cd)	0.000005%	<0.000005%	In house development
13	Copper (Cu)	0.00001%	0.000006%	Vogel's fifth edition Quantitative chemical Analysis
14	Iron (Fe)	0.0001%	0.00005%	Vogel's fifth edition Quantitative chemical Analysis

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15	Lead (Pb)	0.000005%	<0.000005%	ACS 2000
16	Manganese (Mn)	0.000005%	<0.000005%	In house development
17	Silver (Ag)	0.00001%	<0.00001%	In house development
18	Zinc (Zn)	0.00001%	<0.00001%	In house development
19	Strontium(Sr)	0.000005%	<0.000005%	In house development
20	Titanium(Ti)	0.00001%	<0.00001%	In house development
21	Nickel(Ni)	0.00001%	<0.00001%	In house development
22	Potassium (K)	0.00001%	<0.00001%	In house development
23	Sodium(Na)	0.0001%	<0.0001%	In house development
24	Chlorate(ClO3)	0.001%	<0.001%	In house development
25	Aluminium(Al)	0.00001%	<0.00001%	In house development
26	Arsenic (As)	0.000005%	<0.000005%	In house development
27	Barium(Ba)	0.000005%	<0.000005%	In house development
28	Beryllium(Be)	0.000005%	<0.000005%	In house development
29	Bismuth(Bi)	0.00001%	<0.00001%	In house development
30	Calcium(Ca)	0.00005%	<0.00005%	In house development
31	Lithium(Li)	0.000005%	<0.000005%	In house development
32	Magnesium(Mg)	0.00005%	<0.00005%	In house development

● **Packing is found to be Satisfactory / ~~Not Satisfactory~~**

THE ABOVE BATCH MATERIAL COMPLIES WITH THE PRESCRIBED QUALITY STANDARD AS ABOVE.  
 Measured values given in this Certificate of Analysis are the results determined at the time of Analysis.  
 The above data do not relieve the user from analyzing the product upon receipt. Any legally binding  
 Assurance regarding the suitability of the product for any particular purpose or use cannot be derived thereof.

**The results relate only to the sample tested.**

**This certificate shall not be reproduced except in full, without written consent of the Lab management.**

**For S D FINE-CHEM LIMITED, POICHA**

**(Authorized Signatory)**  
**Manager Quality Control**

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