

**Regd. Office** : 315 TV Industrial Area, 248 Worli Road, Mumbai-400 030, India.  
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**Tel** : 022-24814444 **Extn.** : 4510, 4507

### CERTIFICATE OF ANALYSIS

QUALITY CONTROL LABORATORY of SDFCL Mfg. Unit No.2  
 Survey No.299, Poicha(R), -391 780, Taluka : Savli, District : Vadodara , Gujarat  
 NABL ACCREDITED TC-6881 ISO/IEC 17025 : 2017 For Chemical Testing

**Date of Sampling** : 26/12/2022  
**Testing started on** : 26/12/2022  
**Testing completed on** : 27/12/2022  
**Date of Reporting** : 02/02/2023

|                                |   |                          |                      |
|--------------------------------|---|--------------------------|----------------------|
| <b>Name Of The Product</b>     | <b>NITROBENZENE AR</b>                          |                          |                      |
| <b>Batch No.:</b>              | <b>A23A/2522/0912/31</b>                        | <b>Product Code</b>      | <b>20170</b>         |
| <b>Mfg. Date</b>               | <b>JAN-2023</b>                                 | <b>Reassessment Date</b> | <b>DEC-2025</b>      |
| <b>Specification Reference</b> | <b>20170SP02</b>                                | <b>Lab ID</b>            | <b>RM/2223/12029</b> |
| <b>CASR No.</b>                | <b>98-95-3</b>                                  | <b>Certificate No.:</b>  | <b>091222/25</b>     |
| <b>Molecular Formula</b>       | <b>C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub></b> | <b>Molecular Weight</b>  | <b>123.11</b>        |

| S.NO. | TEST  | SPECIFICATIONS                               | RESULTS  | TEST METHOD REF.                 |
|-------|---|--|----------|----------------------------------|
| 1     | Description                                     | Pale yellow to yellow coloured clear liquid. | Complies | Ph Eur 6.0 <sup>th</sup> Edition |
| 2     | Solubility                                      | Miscible in methanol forming clear solution. | Complies | Ph Eur 6.0 <sup>th</sup> Edition |
| 3     | Minimum Assay (By GC)                           | 99.0%  | 99.87%   | In house development             |
| 4     | Wt.per ml at 20°C                               | 1.201 - 1.203 g                              | 1.203 g  | Ph Eur 6.0 <sup>th</sup> Edition |
| 5     | Freezing Point                                  | Not below 5.3°C                              | 6°C      | ACS 10 <sup>th</sup> edition     |
| 6     | Refractive Index (n) <sub>D</sub> <sup>20</sup> | 1.552 - 1.553                                | 1.553    | Ph Eur 6.0 <sup>th</sup> Edition |
| 7     | Boiling Point                                   | 210.9°C                                      | 210.9°C  | Ph Eur 6.0 <sup>th</sup> Edition |

**MAXIMUM LIMITS OF IMPURITIES :**

|    |                             |          |           |   |
|----|-----------------------------|----------|-----------|---|
| 8  | Water                       | 0.05%    | 0.04%     | Ph Eur 6.0 <sup>th</sup> Edition                        |
| 9  | Acidity (HNO <sub>3</sub> ) | 0.003%   | 0.001%    | ACS 10 <sup>th</sup> edition                            |
| 10 | Chloride (Cl)               | 0.0002%  | <0.0002%  | ACS 2000  |
| 11 | Copper (Cu)                 | 0.00005% | 0.00003%  | Vogel's fifth edition<br>Quantitative chemical analysis |
| 12 | Iron (Fe)                   | 0.0001%  | 0.00005%  | Vogel's fifth edition<br>Quantitative chemical analysis |
| 13 | Lead (Pb)                   | 0.00005% | <0.00005% | ACS 2000  |

(This is a computer printed report hence valid without signature)



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- **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.**

**Sampling SOP : SDFCL-POI-SOP-001**  
**Sampling Plan : (Sq.root of N+1)**

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

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

**.....END OF REPORT.....**

(This is a computer printed report hence valid without signature)