

CERTIFICATE OF ANALYSIS

QUALITY CONTROL LABORATORY of SDFCL Mfg. Unit No.2
 Survey No.299, Poicha(R), -391780, Taluka : Savli, District : Vadodara , Gujarat
 NABL ACCREDITED TC-6881 ISO/IEC 17025 : 2017 For Chemical Testing

ULR No: TC688120000000232P

1. Discipline: Chemical Testing

I. Group: Chemical

| | | | |
|----------------------------|--------------------------------------------------------------------------------|---------------------------|----------------------|
| Name of Product | ACETONE AR, ACS(Meets analytical specification of IP, BP, USP, Ph, Eur) | | |
| Batch No.: | I20A/0520/2007/31 | Product Code | 20003 |
| Mfg. Date: | SEPT.-2020 | Reassessment Date: | AUG.-2025 |
| Specification Ref.: | 20003SP05 | Lab ID : | RM/2021/07106 |
| CASR No.: | 67-64-1 | Certificate No.: | R- 200720/05 |
| Molecular Formula: | C₃H₆O | Molecular Weight: | 58.08 |

| TEST | SPECIFICATIONS | RESULTS | TEST METHOD REF. |
|--------------------------------------------------|-----------------------------------------------------------------------|------------|------------------------------------------------------------|
| *Description | A clear and colourless liquid having characteristic odour. | Complies | Ph Eur 6.0 th edition |
| *Solubility | Miscible with water & methanol forming a clear & colourless solution. | Complies | Ph Eur 6.0 th edition |
| *Identification (FTIR) | Passes test | Complies | In house development |
| Minimum Assay (By GC) | 99.5% | 99.89% | USP 41, NF 36, 2018 |
| *Wt. per ml at 20°C | 0.789 - 0.792 g | 0.791 g | Ph Eur 6.0 th edition |
| *Specific Gravity at 25°C | Not more than 0.789 | 0.789 | USP 36, NF31 |
| *Refractive index (n) _D ²⁰ | 1.358 - 1.360 | 1.359 | Ph Eur 6.0 th edition |
| MAXIMUM LIMITS OF IMPURITIES : | | | |
| *Colour | 10 Hz | < 10 Hz | Ph Eur 6.0 th edition |
| *Water (H ₂ O) | 0.2% | 0.11% | Ph Eur 6.0 th edition |
| *Acidity (CH ₃ COOH) | 0.002% | 0.0014% | ACS 10 th edition |
| *Alkalinity(NH ₃) | 0.0005% | NIL | ACS 10 th edition |
| *Non volatile matter | 0.001% | 0.0004% | ACS 10 th edition |
| *Aldehyde (HCHO) | 0.002% | 0.001% | ACS 10 th edition |
| *Aluminium (Al) | 0.00001% | <0.00001% | In house development |
| *Barium (Ba) | 0.000005% | <0.000005% | In house development |
| *Cadmium (Cd) | 0.000005% | <0.000005% | In house development |
| *Calcium (Ca) | 0.00005% | <0.00005% | In house development |
| *Chromium (Cr) | 0.000002% | <0.000002% | In house development |
| *Cobalt (Co) | 0.000002% | <0.000002% | In house development |
| *Copper (Cu) | 0.000002% | <0.000002% | In house development |
| *Iron (Fe) | 0.00002% | 0.00001% | Vogel's fifth edition Quantitative chemical Analysis |

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

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

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| | | | |
|-------------------------------------------------------------|-----------|------------|------------------------------|
| *Lead (Pb) | 0.000005% | NIL | In house development |
| *Magnesium (Mg) | 0.00001% | <0.00001% | In house development |
| *Manganese (Mn) | 0.000002% | <0.000002% | In house development |
| *Nickel (Ni) | 0.000002% | <0.000002% | In house development |
| *Potassium (K) | 0.00001% | <0.00001% | In house development |
| *Sodium (Na) | 0.0001% | <0.0001% | In house development |
| *Strontium (Sr) | 0.000002% | <0.000002% | In house development |
| *Zinc (Zn) | 0.00005% | <0.00005% | In house development |
| *Substance reducing permanganate (O) | 0.0002% | <0.0002% | ACS 10 th edition |
| *Benzene content (C ₆ H ₆) (By GCHS) | 2 ppm w/v | ND | USP-36,2013 |
| *Propan-2-ol | 0.05%v/v | <0.05%v/v | In house development |
| *Methanol (CH ₃ OH) | 0.05%v/v | <0.05%v/v | In house development |
| *Related substances (any other impurity) | 0.05%v/v | <0.05%v/v | In house development |

“The tests marked with an * are not accredited by NABL (ISO/IEC 17025:2017)”.

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.

This product is manufactured at our manufacturing unit no.2

Sampling SOP No. : SDFCL-POI-SOP-001

Sampling Plan : A (Sq. root of N+1)

Spl.Ref. (if any) : -

For S D FINE-CHEM LIMITED

(Authorized Signatory)

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

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