

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: TC688120000000208P

1. Discipline: Chemical Testing

I. Group: Chemical

| | | | |
|----------------------------|--|---------------------------|----------------------|
| Name of Product | GLYCEROL AR (meets the analytical specification of BP, USP, Ph.Eur.) (Not for Direct Medicinal use) | | |
| Batch No.: | I20A/0120/0408/31 | Product Code | 20118 |
| Mfg. Date: | SEPT.-2020 | Reassessment Date: | AUG.-2025 |
| Specification Ref.: | 20118SP03 | Lab ID : | RM/2021/08015 |
| CASR No.: | 56-81-5 | Certificate No.: | R- 040820/01 |
| Molecular Formula: | C₃H₈O₃ | Molecular Weight: | 92.09 |

| TEST | SPECIFICATIONS | RESULTS | TEST METHOD REF. |
|---|--|----------|--|
| *Description | A clear viscous liquid, not more than 10 Hazen units in colour. | Complies | Ph Eur 6.0 th edition |
| *Solubility | Miscible with water & with industrial Methylated spirit forming clear & Colourless solution. | Complies | Ph Eur 6.0 th edition |
| *Identification (By FTIR) | Passes test | Complies | In house development |
| Minimum Assay (By GC) | 99.5% | 99.95% | ACS 11 th edition, 2016 |
| *Wt. per ml at 20°C | 1.257 – 1.261 g | 1.259 g | Ph Eur 6.0 th edition |
| *Refractive index (n) _D ²⁰ | 1.471 – 1.473 | 1.472 | Ph Eur 6.0 th edition |
| *Reaction | pH 6.0 – 7.0 | 6.5 | In house development |
| MAXIMUM LIMITS OF IMPURITIES : | | | |
| *Sulphated ash | 0.005% | 0.0025% | ACS 10 th edition |
| *Chloride(Cl) | 0.0001% | <0.0001% | ACS 2000 |
| *Sulphate(SO ₄) | 0.0005% | 0.00025% | ACS 2000 |
| *Arsenic(As) | 0.0001% | NIL | In house development |
| *Iron (Fe) | 0.00005% | 0.00002% | Vogel's fifth edition Quantitative chemical Analysis |
| *Lead (Pb) | 0.00005% | NIL | ACS 2000 |
| *Heavy Metals(Pb) | 0.0005% | NIL | ACS 2000 |
| *Esters of fatty acids (glycerol tributyrates) | Passes test | Complies | In house development |
| *Sugar (glucose) | Passes test | Complies | In house development |
| *Acidity or Alkalinity | Passes test | Complies | BP - 2004 |
| *Aldehydes | Passes test | Complies | BP - 2004 |
| *Related substances | Passes test | Complies | USP |

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



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| | | | |
|---|-----------------------|----------|----------------------------------|
| *Halogenated compounds (as Cl) | 0.003% | <0.003% | USP |
| *Water | 2.0% | 0.043% | Ph Eur 6.0 th edition |
| *Organic volatile impurities | Meets the requirement | Complies | USP |
| *Ethylene Glycol & related substance (GC) | Passes test | Complies | USP |

“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)

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