

## Certificate of Analysis

### (Representative Sample Certificate)

**Product Name:** Dihydroxyacetone  
**INCI Name:** 1,3-dihydroxy-2-propanone  
**CAS Number:** 96-26-4  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Expiration Date:** 36 months from production date

| Property  | Specification  | Analysis     |
|---|--|--------------|
| Appearance  | White to almost white, not more than cream colored, fine crystalline, free flowing powder* | Pass         |
| Assay<br>(Calc. on Anhydrous Substance)                   | 98.0 - 102.0%  | 100.3%       |
| Identity<br>(IR Spectrum)                                 | Conforms   | Pass         |
| Appearance of Solution<br>(10% water/ethanol 96% (20/80)) | Transparent without any cloudiness for 72 hours  | Pass         |
| Appearance of Solution<br>(Clarity)                       | Clear to almost clear  | Almost clear |
| Appearance of Solution<br>(Color (25% water))             | ≤50 Hazen  | <5 Hazen     |
| pH Value<br>(5% water)                                    | 4.0 - 6.0  | 4.6          |
| As (Arsenic)  | ≤0.0003%   | <0.0003%     |
| Fe (Iron)   | ≤0.002%  | <0.002%      |
| Heavy Metals (as Pb)                                      | ≤0.001%  | <0.001%      |
| Formic Acid<br>(NMR)                                      | ≤30.0 ppm  | <15.0 ppm    |
| Glycerol<br>(HPLC)  | ≤0.5%  | ≤0.5%        |

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy themselves as to the suitability & completeness of such information for their own particular use.

|  |               |               |
|--|---------------|---------------|
| Methanal<br>(HPLC)                               | ≤50.0 ppm     | 23 ppm        |
| Protein<br>(Colorimetric)                        | ≤0.1%         | <0.1%         |
| Sulfated Ash<br>(600° C)                         | ≤0.10%        | 0.03%         |
| Volatile Matter<br>(IR-Drying)                   | ≤0.5%         | 0.1%          |
| Water<br>(according to Karl Fisher)              | ≤0.20%        | 0.05%         |
| Microbial Purity<br>(Total Viable Aerobic Count) | ≤100 CFU/g    | ≤100 CFU/g    |
| E.coli   | Absent in 1g  | Absent in 1g  |
| Pseudomonas aeruginosa                           | Absent in 1g  | Absent in 1g  |
| Staphylococcus aureus                            | Absent in 1g  | Absent in 1g  |
| Candida albicans                                 | Absent in 1g  | Absent in 1g  |
| Salmonella species                               | Absent in 10g | Absent in 10g |

\*Partly with granular parts

“Certified in compliance with the terms of the US-Canada Organic Equivalency Arrangement. The above data was obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

All data are as per our supplier.

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