

## Certificate of Analysis

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|--|---|
| <b>LAFFORT USA</b><br><b>COA CONTACT 2</b><br><b>1460 CADER LANE</b><br><b>PETALUMA CA 94954</b> | <b>Customer Order: 690</b><br><br><b>Shipped Quantity: 45.000 DR</b><br><b>Shipped From: AIE US CALVERT CITY PLT</b><br><b>Order Number: 8902261/000010</b><br><b>Delivery: 852805310/000010</b><br><b>Date Shipped: August 01, 2024</b><br><b>Sold To Number: 707142</b> |
|--|---|

POLYCLAR VT DRUM 22.68KG 1  
 Polyclar(TM) VT beverage clarifier  
 Material Number: 830932

Batch: 0002698501

| Characteristics   | Specification | Results       |
|---|---------------|---------------|
| Appearance @ 25 deg C - White to off white free flowing powder  | PASS          | PASS          |
| Identification Tests (Q232) - Meets all Requirements            | PASS          | PASS          |
| pH (1g/100 ml D.I. water, W622)                                 | 5.0 - 8.0     | 5.6           |
| % Moisture (Karl Fischer, W1525)                                | < 5.0         | 3.7           |
| ppm Vinyl Pyrrolidone (HPLC, W1245)                             | <= 10         | 0             |
| % Nitrogen (anhydrous basis, W1118)                             | 11.0 - 12.8   | 12.6          |
| ppm Heavy Metals (W1494)  | < 10          | 0             |
| ppm Arsenic (W1494)   | < 2.0         | 0.0           |
| ppm Lead (W1494)  | < 2           | 0             |
| ppm Mercury (W1494)   | < 1           | 0             |
| ppm Zinc (W1494)  | < 5           | 0             |
| ppm Cadmium (W1494)   | < 1           | 0             |
| % Ash (Residue on Ignition or Sulphated, W1381)                 | <= 0.4        | 0.0           |
| ppm Sulphates (CCLM473)   | < 1000        | 97            |
| % Adsorption Efficiency (Anhydrous basis, Salicylic Acid, W271) | >= 30         | 32            |
| % Adsorptive Capacity of Oenocyanine (W496)                     | >= 30         | 43            |
| % Water solubles (W1153)  | < 0.50        | 0.36          |
| % Acid/Alcohol Solubles from PVPP (W822)                        | < 1.0         | 0.3           |
| ppm Arsenic Trioxide (W1494)                                    | <= 4.0        | 0.0           |
| % Total Water-Soluble by Japanese MHW Method (W1053)            | <= 1.5        | 0.8           |
| Date of Manufacture   |               | June 27, 2024 |
| Next Retest Date  |               | June 27, 2027 |
| Shipped Quantity  |               | 27.000 DR     |

**Notes:**

Material meets the requirements of PVPP OIV monograph, current Food Chemical Codex and Japanese MHW. Results for HM, Arsenic, Lead, Nitrogen and Ash are based on increased interval testing.

Results Certified by:  
 Stephen D. Hale

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| POLYCLAR VT DRUM 22.68KG 1<br>Polyclar(TM) VT beverage clarifier<br>Material Number: 830932<br><br>Batch: 0002698501 |  |  |                |
| <b>Characteristics</b>   |  | <b>Specification</b>   | <b>Results</b> |

Quality Systems Manager

This COA is printed from a secure computer system ensuring the batch was properly released by the Quality Department and is valid without signature.

Manufactured by:  
ISP CHEMICALS LLC  
AFFILIATE OF ASHLAND  
455 N. MAIN ST. (HWY 95)  
CALVERT CITY KY 42029  
USA

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