

Prep Standard - Chemical Standard Summary

Order ID : Q2115

Test : COD,Oil and Grease

Prepbatch ID :

Sequence ID/Qc Batch ID: LB135911,LB135932,

Standard ID :

EP2614, WP112782, WP112783, WP112784, WP113231, WP113232, WP113233, WP113234, WP113235, WP113236, WP113237, WP113238, WP113239, WP113240, WP113241, WP113242, WP113243,

Chemical ID :

E3551,E3917,M6069,M6151,W2784,W2817,W2871,W3009,W3082,W3112,W3128,W3169,W3204,



Extractions STANDARD PREPARATION LOG

| Recipe ID 3923 | NAME Baked Sodium Sulfate | <u>NO.</u> EP2614 | Prep Date 05/19/2025 | | Prepared By RUPESHKUMA R SHAH | ScaleID Extraction_SC ALE_2 | PipettelD None | Supervised By Riteshkumar Patel 05/19/2025 |
|----------------------|-----------------------------------|----------------------|-------------------------|------------|--|-----------------------------------|-------------------|--|
| <u>FROM</u> | 4000.00000gram of E3551 = Final G | uantity: 400 | 00.000 gram | | | (EX-SC-2) | | |
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| Pacipa | | | | Expiration | Propared | | | Supervised By |

| <u>Recipe</u> | | | | Expiration | Prepared | | | Supervised By |
|---------------|----------------------------------|-------------|-------------|----------------|----------------|----------------|-----------|---------------|
| ID | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | PipettelD | Iwona Zarych |
| 229 | 1:1 HCL | WP112782 | 04/22/2025 | 08/18/2025 | Jignesh Parikh | None | None | , |
| | | | | | | | | 04/22/2025 |
| FROM | 500.00000ml of M6151 + 500.00000 | ml of W3112 | e Final Qua | ntity: 1.000 L | | | | |
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| Recipe ID 2470 | NAME 1664A SPIKING SOLN | <u>NO.</u> WP112783 | Prep Date 04/22/2025 | Expiration Date 10/03/2025 | <u>Prepared</u> <u>By</u> Jignesh Parikh | CALE_8 (WC | <u>PipetteID</u> None | Supervised By Iwona Zarych 04/22/2025 |
|----------------------|-----------------------------------|------------------------|-------------------------|----------------------------------|--|------------------------------------|--------------------------|---|
| <u>FROM</u> | 1000.00000ml of E3917 + 4.00000gr | am of W281 | 7 + 4.00000g | ram of W2871 | = Final Quantit | SC-7) y: 1000.000 ml | | |
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| Recipe | | | | Expiration | Prepared | | | Supervised By |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|---------------|-----------------------------------|------------|--------------|-------------------|-----------------|--------------------------------|-----------|---------------|
| <u>ID</u> | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | PipettelD | Iwona Zarych |
| 3374 | 1664A QCS spiking solution-SS | WP112784 | 04/22/2025 | 10/03/2025 | Jignesh Parikh | WETCHEM_S | None | 5 |
| | | | | | | CALE_8 (WC SC-7) | | 04/22/2025 |
| FROM | 1000.00000ml of E3917 + 4.00000gr | am of W300 | 9 + 4.00000g | ram of W3082 | = Final Quantit | | | |
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| Recipe ID 2456 | NAME COD Stock std, 1000ppm | <u>NO.</u> WP113231 | Prep Date 05/28/2025 | Expiration Date 06/04/2025 | Prepared By Iwona Zarych | ScaleID WETCHEM_S CALE_5 (WC | PipetteID None | Supervised By Jignesh Parikh 05/28/2025 |
|----------------------|----------------------------------|------------------------|-------------------------|----------------------------------|--------------------------------|------------------------------------|-------------------|---|
| FROM | 0.08500gram of W2784 + 100.00000 | ml of W3112 | 2 = Final Qua | ntity: 100.000 | ml | SC-5) | | |
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| <u>Recipe</u> <u>ID</u> | NAME | <u>NO.</u> | <u>Prep Date</u> | Expiration Date | <u>Prepared</u> <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> Jignesh Parikh |
|----------------------------|----------------------------------|-----------------|------------------|--------------------|------------------------------|-------------------------|------------------|--|
| 2457 | COD Stock std-SS, 1000ppm | <u>WP113232</u> | 05/28/2025 | 06/04/2025 | lwona Zarych | WETCHEM_S CALE_5 (WC | None | 05/28/2025 |
| <u>FROM</u> | 0.08500gram of W3169 + 100.00000 | ml of W3112 | 2 = Final Qua | intity: 100.000 | ml | SC-5) | | |
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| Recipe ID 139 | NAME COD calibration std. 0 ppm | <u>NO.</u> WP113233 | Prep Date 05/28/2025 | Expiration Date 06/04/2025 | Prepared By Iwona Zarych | <u>ScaleID</u> None | PipetteID None | Supervised By Jignesh Parikh 05/28/2025 |
|---------------------|------------------------------------|------------------------|-------------------------|----------------------------------|--------------------------------|------------------------|-------------------|---|
| <u>FROM</u> | 10.00000ml of W3112 = Final Quant | tity: 10.000 | ml | | | | | |
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| Recipe | | | | Expiration | Prepared | | | Supervised By |
|---------------|-----------------------------------|------------|--------------|-----------------|--------------|----------------|-----------|----------------|
| <u>ID</u> | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | PipettelD | Jignesh Parikh |
| 138 | COD calibration std. 10 ppm | WP113234 | 05/28/2025 | 06/04/2025 | lwona Zarych | None | WETCHEM_P | C C |
| | | | | | | | IPETTE_3 | 05/28/2025 |
| FROM | 9.90000ml of W3112 + 0.10000ml of | WP113231 | = Final Quan | tity: 10.000 ml | | | (WC) | |
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| Recipe ID 137 | NAME COD calibration std. 50 ppm | <u>NO.</u> WP113235 | Prep Date 05/28/2025 | Expiration Date 06/04/2025 | Prepared By Iwona Zarych | <u>ScaleID</u> None | PipettelD WETCHEM_F IPETTE_3 | Supervised By Jignesh Parikh 05/28/2025 |
|---------------------|-------------------------------------|------------------------|-------------------------|----------------------------------|--------------------------------|------------------------|------------------------------------|---|
| <u>FROM</u> | 9.50000ml of W3112 + 0.50000ml of | WP113231 | = Final Quan | tity: 10.000 ml | | | (WC) | |
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| Recipe | | | | Expiration | Prepared | | | Supervised By |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|---------------|-----------------------------------|------------|--------------|-------------------|--------------|----------------|-----------|----------------|
| <u>ID</u> | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | PipettelD | Jignesh Parikh |
| 4161 | COD calibration std. 75 ppm | WP113236 | 05/28/2025 | 06/04/2025 | Iwona Zarych | None | WETCHEM_P | 0 |
| | | | | | | | IPETTE_3 | 05/28/2025 |
| FROM | 9.25000ml of W3112 + 0.75000ml of | WP113231 | = Final Quan | tity: 10.000 ml | | | (WC) | |
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| Recipe ID 136 | NAME COD calibration std. 100 ppm | <u>NO.</u> WP113237 | Prep Date 05/28/2025 | | Prepared By Iwona Zarych | <u>ScaleID</u> None | PipettelD WETCHEM_F IPETTE_3 | Supervised By Jignesh Parikh 05/28/2025 |
|---------------------|--------------------------------------|------------------------|-------------------------|-----------------|--------------------------------|------------------------|------------------------------------|---|
| <u>FROM</u> | 9.00000ml of W3112 + 1.00000ml of | WP113231 | = Final Quan | tity: 10.000 ml | | | (WC) | |
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| <u>Recipe</u> | | | | Expiration | Prepared | | | <u>Supervised By</u> |
|---------------|-----------------------------------|------------|--------------|-----------------|-----------------|----------------|-----------|----------------------|
| ID | NAME | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | PipettelD | Jignesh Parikh |
| 135 | COD calibration std. 150 ppm | WP113238 | 05/28/2025 | 06/04/2025 | Iwona Zarych | None | WETCHEM_P | _ |
| | | | | | | | IPETTE_3 | 05/28/2025 |
| FROM | 8.50000ml of W3112 + 1.50000ml of | WP113231 | = Final Quan | tity: 10.000 ml | | | (WC) | |
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| Recipe ID 2458 | NAME COD CCV std, 50ppm | <u>NO.</u> WP113239 | Prep Date 05/28/2025 | Expiration Date 06/04/2025 | Prepared By Iwona Zarych | <u>ScaleID</u> None | PipettelD WETCHEM_F IPETTE_3 | Supervised By Jignesh Parikh 05/28/2025 |
|----------------------|-----------------------------------|------------------------|-------------------------|----------------------------------|--------------------------------|------------------------|------------------------------------|---|
| <u>FROM</u> | 9.50000ml of W3112 + 0.50000ml of | WP113231 | = Final Quan | tity: 10.000 ml | <u> </u> | | (WC) | |
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| <u>Recipe</u> <u>ID</u> | NAME | <u>NO.</u> | Prep Date | Expiration Date | <u>Prepared</u> <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> Jignesh Parikh |
|----------------------------|-----------------------------------|-----------------|--------------|--------------------|------------------------------|----------------|-----------------------|--|
| 2459 | COD ICV-LCS std, 50ppm | <u>WP113240</u> | 05/28/2025 | 06/04/2025 | Iwona Zarych | None | WETCHEM_P IPETTE_3 | - |
| FROM | 9.50000ml of W3112 + 0.50000ml of | WP113232 | = Final Quan | tity: 10.000 ml | | | (WC) | |
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| 49.75000ml of W3112 + 0.25000ml of WP113231 = Final Quantity: 50.000 ml | h Parikh | Supervised Jignesh Par 05/28/202 | PipetteID WETCHEM_P IPETTE_3 | <u>ScaleID</u> None | Prepared By Iwona Zarych | Expiration Date 06/04/2025 | Prep Date 05/28/2025 | <u>NO.</u> WP113241 | NAME COD LOD std, 5ppm | <u>Recipe</u> <u>ID</u> 3580 |
|---|----------|--|------------------------------------|------------------------|--------------------------------|----------------------------------|-------------------------|------------------------------|-----------------------------------|------------------------------------|
| | | 00/20/202 | (WC) ⁻ | <u>I</u> | ı nl | ı ıntity: 50.000 n | I = Final Qua | I If WP11323 ⁻ | 49.75000ml of W3112 + 0.25000ml c | <u>FROM</u> |
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| <u>Recipe</u> <u>ID</u> | NAME | <u>NO.</u> | Prep Date | Expiration Date | <u>Prepared</u> <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> Jignesh Parikh |
|----------------------------|-----------------------------------|-----------------|---------------|--------------------|------------------------------|----------------|-----------------------|--|
| 2069 | COD LOQ std, 10.0PPM | <u>WP113242</u> | 05/28/2025 | 06/04/2025 | lwona Zarych | None | WETCHEM_P IPETTE_3 | 05/28/2025 |
| FROM | 49.50000ml of W3112 + 0.50000ml o | f WP113232 | 2 = Final Qua | ntity: 50.000 n | nl | | (WC) | |
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| Recipe ID 4162 | NAME RL CHECK | <u>NO.</u> WP113243 | Prep Date 05/28/2025 | Expiration Date 06/04/2025 | Prepared By Iwona Zarych | <u>ScaleID</u> None | PipettelD WETCHEM_P IPETTE_3 | Supervised By Jignesh Parikh 05/28/2025 |
|----------------------|-----------------------------------|------------------------|-------------------------|----------------------------------|--------------------------------|------------------------|------------------------------------|---|
| <u>FROM</u> | 9.90000ml of W3112 + 0.10000ml of | WP113231 | = Final Quan | tity: 10.000 ml | | | (WC) | |
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CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|---|------------|--------------------|----------------------------|--------------------------------|-------------------|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 313201 | 07/01/2025 | 01/03/2024 / Rajesh | 07/20/2023 / Rajesh | E3551 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H2762008 | 10/03/2025 | 04/03/2025 / Rajesh | 03/31/2025 / Rajesh | E3917 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | 140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK | 80A0441 | 02/29/2028 | 09/03/2024 / jignesh | 08/19/2024 / Jaswal | M6069 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 22G2862015 | 08/18/2025 | 02/18/2025 / Sagar | 01/15/2025 / Sagar | M6151 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | P243-500 / Potassium Hydrogen Phthalate, 500 gms | 201089 | 06/30/2025 | 12/23/2020 / apatel | 12/16/2020 / apatel | W2784 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | A12244 / Stearic acid, 98%, 100 g | U20E006 | 04/02/2026 | 04/02/2021 / apatel | 04/02/2021 / apatel | W2817 |



CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|--|---------------------|--------------------|----------------------------|--------------------------------|-------------------|
| Seidler Chemical | H223-57 / Hexadecane, 99.0% | 0000266903 | 05/04/2027 | 09/07/2021 / apatel | 08/26/2021 / apatel | W2871 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | H223-57 / Hexadecane, 99.0% | SHBP8192 | 02/27/2028 | 02/27/2023 / Iwona | 02/27/2023 / Iwona | W3009 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | A12244 / Stearic acid, 98%, 100 g | U23E020 | 02/26/2029 | 02/26/2024 / Iwona | 02/26/2024 / Iwona | W3082 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Environmental Express LTD | B1010 / COD Digestion Vials Low Level 0-150Mg/L | 13821 | 10/31/2027 | 05/20/2025 / Iwona | 07/25/2024 / Iwona | W3128 |
| Supplier | ItemCode / ItemName | Lot # | Expiration | Date Opened / | Received Date / | Chemtech |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|--|------------|--------------------|----------------------------|--------------------------------|-------------------|
| PCI Scientific Supply, Inc. | P243-500 / Potassium Hydrogen Phthalate, 500 gms | 24H0956262 | 04/28/2026 | 01/03/2025 / Iwona | 01/03/2025 / Iwona | W3169 |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--|------------|--------------------|----------------------------|--------------------------------|-------------------|
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 25c0362005 | 04/30/2026 | 04/22/2025 / jignesh | 04/18/2025 / jignesh | W3204 |





Material No.: H223-57 Batch No.: 0000266903 Manufactured Date: 2020/05/05 Retest Date: 2027/05/04 Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|-------------------------------|---------------|--------|
| Assay (CH3(CH2)14CH3) (by GC) | >= 99.0 % | 99.3 |
| Infrared Spectrum | Passes Test | PT |

For Laboratory, Research or Manufacturing Use

Country of Origin: US Packaging Site: Paris Mfg Ctr & DC

James Techie

Jamie Ethier Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Thermo Fisher

W 2817 Nec. 04/02/2021

Product Specification

Product Name: Catalog Number: Stearic acid, 98%, Thermo Scientific Chemicals A12244.14

| CAS Number: | 57-11-4 |
|--------------------|--|
| Molecular Formula: | C18H36O2 |
| Molecular Weight: | 284.48 |
| InChl Key: | QIQXTHQIDYTFRH-UHFFFAOYSA-N |
| SMILES: | 0=(0)22222222222222222222222222222222222 |
| Synonym: | stearic acid acide stearique hydrofol acid 1855 hydrofol acid 1655 industrene 5016 |
| | stearic acid, ion(1-) (8CI) glycon TP glycon DP acidum stearinicul hydrofol acid 150 |

| Product Specification | |
|-----------------------------|--|
| Appearance (Color): | White |
| Form: | Crystals or powder or crystalline powder or flakes or waxy solid |
| Assay (Silylated GC): | ≥97.5% |
| Melting Point (clear melt): | 67.0-74.0?C |

Date Of Print: 11/30/2023

Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.

Sigma-Aldrich

W 3009 Lec. 2/27/2023

Product Name: Hexadecane - ReagentPlus® , 99%

Certificate of Analysis

12

Product Number: H6703 **Batch Number:** SHBP8192 Brand: SIAL CAS Number: 544-76-3 MDL Number: MFCD00008998 Formula: C16H34 Formula Weight: 226.44 g/mol Quality Release Date: 04 AUG 2022

CH3(CH2)14CH3

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com Email USA: techserv@sial.com Outside USA: eurtechserv@sial.com

| | Specification | Result | |
|----------------------------|-----------------------|-----------|--|
| Appearance (Color) | Colorless or White | Colorless | |
| Appearance (Form) | Liquid or Solid | Liquid | |
| Infrared Spectrum | Conforms to Structure | Conforms | |
| Refractive index at 20 ° C | 1.432 - 1.436 | 1.435 | |
| Purity (GC) | > 98.5 % | 99.3 % | |
| Color Test | _ 20 АРНА | < 5 APHA | |

Larry Coers, Director Quality Control Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





Certificate of Analysis

| 1 Reagent Lane | |
|---------------------|--|
| Fair Lawn, NJ 07410 | |
| 201.796.7100 tel | Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System |
| 201.796.1329 fax | Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632 |

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

| Catalog Number | P243 | Quality Test / Release Date | 06/19/2020 |
|-------------------|---|-----------------------------|------------|
| Lot Number | 201089 | | |
| Description | POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, A.C.S. | | |
| Country of Origin | Spain | Suggested Retest Date | Jun/2025 |
| Chemical Origin | Organic - non animal | | |
| BSE/TSE Comment | No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product. | | |

| N/A | | | |
|---------------------------------------|------------------------|----------------------------------|----------------|
| Result Name | Units | Specifications | Test Value |
| APPEARANCE | | REPORT | WHITE CRYSTALS |
| ASSAY POTASSIUM HYDROGEN PHTHALATE | % | Inclusive Between 99.95 - 100.05 | 100.03 |
| CHLORINE COMPOUNDS | % | <= 0.003 | <0.003 |
| HEAVY METALS (as Pb) | ppm | <= 5 | <5 |
| IDENTIFICATION | PASS/FAIL | = PASS TEST | PASS TEST |
| INSOLUBLE MATTER | % | <= 0.005 | <0.005 |
| IRON (Fe) | ppm | <= 5 | <5 |
| PH OF 0.05M SOLUTION | | Inclusive Between 4.00 - 4.02 | 4.00 |
| SODIUM (Na) | % | <= 0.005 | <0.005 |
| SULFUR COMPOUNDS | % | <= 0.002 | <0.002% |
| TRACEABLE TO NIST | SOD CARBONATE | = LOT 351a | 351a |
| TRACEABLE TO NIST KHP STD | POT. ACID PHTHALATE | = LOT 84L | 84L |

Julian Buston

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above. If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.



PRODUCTOS QUIMICOS MONTERREY, S.A. DE CY. MIRADOR 201, COL. MIRADOR MONTERREY, N.L. MEXICO CP 64070 TEL +52 81 13 52 57 57 WWW.pqm.com.mx

CERTIFICATE OF ANALYSIS

| | DIUM SULFATE CRYS CS (CODE RMB3375) | | | NA.CO |
|---|--|-----------------|---|--|
| SPECIFICATION NUMBER : | - | | E DATE: | Na ₂ SO ₄ ABR/21/2023 |
| | 3201 | Naila la Mo | E 1./A I E. | ADR/2 1/2023 |
| TEST | SPECI | FICATIONS | LOT V | ALUES |
| Assay (Na ₂ SO ₄) | Min. 99 | 1.0% | 99.7 % | |
| pH of a 5% solution at 25°C | 5.2 - 9. | 2 | 6.1 | |
| Insoluble matter | Max. 0. | 01% | 0.005 | 1 |
| Loss on ignition | Max. 0. | 5% | 0.1 % | 16 |
| Chloride (Cl) | Max. 0. | 001% | <0.001 | 0/ |
| Nitrogen compounds (as N) | Max. 5 | ppm | <0.001 <5 ppn | |
| Phosphate (PO ₄) | Max. 0. | | <0.001 | |
| Heavy metals (as Pb) | Max. S | | | |
| Iron (Fe) | Max, 0, | 9 R · | <5 ppn <0.001 | |
| Calcium (Ca) | Max. 0. | 01% | 0.002 % | |
| Magnesium (Mg) | Max. 0. | 005% | 0.002 9 | |
| Potassium (K) | Max. 0. | | 0.003 % | |
| Extraction-concentration suit | ability Passes | test | Passes | * |
| Appearance | Passes | | Passes | |
| Identification | Passes | test | Passes | test |
| Solubility and foreing matter | | test | Passes | : test |
| Retained on US Standard No. | | h | 0.1 % | |
| Retained on US Standard No. | 60 sieve Min. 94 | a/ ₀ | 97.3 % | |
| Through US Standard No. 60 | sieve Max. 5% | 46 | 2.5 % | |
| Through US Standard No. 100 |) sieve Max. 10 | 1% | 0.1 % | |
| an second a second s | CON | MENTS | ಕ್ಷಿತ್ರಾಲೆಗೂ ಕಾರ್ಯಕ್ರಿ ಕ್ರಿತಿ ನಿರ್ದೇಶಕರ್ಷ ಪ್ರಾರಂಭ | |
| 91 <i>0</i> 91 | | | n+ | 15 HANDOWNI |
| | | | - he " | |
| | | | 1 | |
| | | QC: Ph | C Irma Belma | res |

If you need further details, please call our factory or contact our local distributor.

Read. by R: 017/293 E3551

RE-02-01, Ed. 1

Acetone BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis

Tort





Material No.: 9254-03 Batch No.: 24H2762008 Manufactured Date: 2024-04-18 Expiration Date:2027-04-18 Revision No.: 0

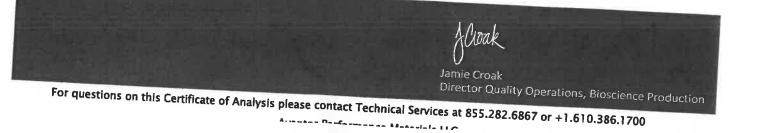
Certificate of Analysis

| lest | Specification | |
|--|---------------|-------------|
| Assay ((CH3)2CO) (by GC, corrected forwater) | | Result |
| Color (APHA) | >= 99.4 % | 100.0 % |
| Residue after Evaporation | <= 10 | 5 |
| Substances Reducing Permanganate | <= 1.0 ppm | 0.0 ppm |
| Titrable Acid (µeq/g) | Passes Test | Passes Test |
| Fitrable Base (µeq/g) | <= 0.3 | 0.2 |
| Vater (H2O) | <= 0.6 | <0.1 |
| ID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak | <= 0.5 % | <0.1 % |
| | < - 3 | 1 |
| CD Sensitive Impurities (as HeptachlorEpoxIde) Single Peak | <= 10 | 1 |

For Laboratory,Research,or Manufacturing Use MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by Rp on 03/31/25 E3917



Certificate of Analysis

Product information

| Product | pH-Fix 0.3-2.3 |
|----------------------|--------------------------------|
| REF | 92180 |
| LOT | 80A0441 |
| Expiration date: | 29.02.2028 |
| Date of examination: | 23.01.2024 |
| Gradation: | pH 0.3-0.7-1.0-1.3-1.6-1.9-2.3 |

Confirmation

Hereby we confirm, that the above mentioned product has successfully passed our quality control system in accordance with ISO 9001 and meets the specific quality criteria.

This document has been produced electronically and is valid without a signature.



MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11 52355 Düren · Germany www.mn-net.com DE Tel.: +49 24 21 969-0 info@mn-net.com CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com

M6069

R: 8/19/24

US Tel.: +1 888 321 62 24 sales-us@mn-net.com

Hydrochloric Acid, 36.5–38.0% BAKER INSTRA-ANALYZED® Reagent For Trace Metal Analysis





M6151

R-> 1/15/25

Material No.: 9530-33 Batch No.: 22G2862015 Manufactured Date: 2022-06-15 Retest Date: 2027-06-14 Revision No.: 0

Certificate of Analysis

| Test | Specification | D. L. |
|---|-------------------|-------------|
| ACS - Assay (as HCI) (by acid-base titrn) | | Result |
| ACS - Color (APHA) | 36.5 - 38.0 % | 37.9 % |
| ACS - Residue after Ignition | ≤ 10 | 5 |
| ACS - Specific Gravity at 60°/60°F | ≤ 3 ppm | < 1 ppm |
| ACS – Bromide (Br) | 1.185 - 1.192 | 1.191 |
| ACS - Extractable Organic Substances | ≤ 0.005 % | < 0.005 % |
| ACS – Free Chlorine (as Cl ₂) | ≤ 5 ppm | < 1 ppm |
| Phosphate (PO4) | ≤ 0.5 ppm | < 0.5 ppm |
| Sulfate (SO4) | ≤ 0.05 ppm | < 0.03 ppm |
| Sulfite (SO3) | ≤ 0.5 ppm | < 0.3 ppm |
| Ammonium (NH4) | ≤ 0.8 ppm | 0.3 ppm |
| Trace Impurities - Arsenic (As) | ≤ 3 ppm | < 1 ppm |
| Trace Impurities - Aluminum (Al) | ≤ 0.010 ppm | < 0.003 ppm |
| Arsenic and Antimony (as As) | ≤ 10.0 ppb | 1.3 ppb |
| Trace Impurities – Barium (Ba) | ≤ 5.0 ppb | < 3.0 ppb |
| | ≤ 1.0 ppb | 0.2 ppb |
| Trace Impurities – Beryllium (Be) | ≤ 1 .0 ppb | < 0.2 ppb |
| Trace Impurities - Bismuth (Bi) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Boron (B) | ≤ 20.0 ppb | < 5.0 ppb |
| Trace Impurities - Cadmium (Cd) | ≤ 1.0 ppb | < 0.3 ppb |
| Trace Impurities - Calcium (Ca) | ≤ 50.0 ppb | 163.0 ppb |
| Trace Impurities – Chromium (Cr) | ≤ 1.0 ppb | 0.7 ppb |
| Trace Impurities - Cobalt (Co) | ≤ 1.0 ppb | < 0.3 ppb |
| Trace Impurities – Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities - Gallium (Ga) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities - Germanium (Ge) | ≤ 3.0 ppb | < 2.0 ppb |
| Trace Impurities – Gold (Au) | ≤ 4.0 ppb | 0.6 ppb |
| Heavy Metals (as Pb) | ≤ 100 ppb | < 50 ppb |
| Trace Impurities – Iron (Fe) | ≤ 15 ppb | 6 ppb |
| | | |

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0% BAKER INSTRA-ANALYZED® Reagent For Trace Metal Analysis





Material No.: 9530-33 Batch No.: 22G2862015

| Test | Specification | Result |
|--|---------------|------------|
| Trace Impurities - Lead (Pb) | ≤ 1.0 ppb | < 0.5 ppb |
| Trace Impurities – Lithium (Li) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Magnesium (Mg) | ≤ 10.0 ppb | 2.9 ppb |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb |
| Trace Impurities – Mercury (Hg) | ≤ 0.5 ppb | 0.1 ppb |
| Trace Impurities – Molybdenum (Mo) | ≤ 10.0 ppb | < 3.0 ppb |
| Trace Impurities – Nickel (Ni) | ≤ 4.0 ppb | < 0.3 ppb |
| Trace Impurities – Niobium (Nb) | ≤ 1.0 ppb | 0.8 ppb |
| Trace Impurities – Potassium (K) | ≤ 9.0 ppb | < 2.0 ppb |
| Trace Impurities – Selenium (Se), For Information Only | | < 1.0 ppb |
| Trace Impurities - Silicon (Si) | ≤ 100.0 ppb | < 10.0 ppb |
| Trace Impurities - Silver (Ag) | ≤ 1.0 ppb | 0.5 ppb |
| Trace Impurities – Sodium (Na) | ≤ 100.0 ppb | 2.3 ppb |
| Trace Impurities – Strontium (Sr) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Tantalum (Ta) | ≤ 1.0 ppb | 1.6 ppb |
| Trace Impurities – Thallium (TI) | ≤ 5.0 ppb | < 2.0 ppb |
| Trace Impurities – Tin (Sn) | ≤ 5.0 ppb | 4.0 ppb |
| Trace Impurities – Titanium (Ti) | ≤ 1.0 ppb | 1.5 ppb |
| Trace Impurities – Vanadium (V) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Zinc (Zn) | ≤ 5.0 ppb | 0.8 ppb |
| Trace Impurities – Zirconium (Zr) | ≤ 1.0 ppb | 0.3 ppb |
| | | - FFF |

Hydrochloric Acid, 36.5-38.0% BAKER INSTRA-ANALYZED® Reagent For Trace Metal Analysis



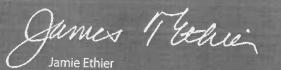


Material No.: 9530-33 Batch No.: 22G2862015

| Test | Specification | Result |
|------|---------------|--------|
| | | |

For Laboratory,Research,or Manufacturing Use Product Information (not specifications): Appearance (clear, fuming liquid) Meets ACS Specifications Storage Condition: Store below 25 °C.

Country of Origin: USA Packaging Site: Phillipsburg Mfg Ctr & DC



Vice President Global Quality

Certificate of analysis

W3082 Received on 2/26/2026 by IZ

| Product No.: | A12244 |
|--------------|--------|
| | |

Product: Stearic acid, 98%

Lot No.: U23E020

Appearance White flakes

Assay 98.7 %

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ENVIRONMENTAL EXPRESS Charleston, SC USA www.envexp.com (800) 343-5319

October 27, 2022

đ

CERTIFICATE OF ANALYSIS

Environmental Express certifies that the following COD Reagent Vials have been rigorously checked against NIST Traceable standards and also compared for conformance to another major brand name product. Environmental Express COD Vial performance is evaluated using bench top spectrophotometers. Acceptance guidelines are strict and ensure dependable,

Environmental Express further certifies that the COD products listed below are recognized by the United States Environmental Protection Agency (USEPA) as equivalent to an approved Water Pollutant Testing Procedure for COD (Federal Register, Vol. 45, No. 78, Monday, April 20th, 1980, page 26811) and as such can be used for National Pollution Discharge Elimination System (NPDES) reporting.

Cat. No.

B1010

13821

Lot No.

Product Description

COD Reagent Vials, 0 - 150 ppm



Certificate of Analysis

BDH9260-500G

BDH POTASS HYDRGN PHTHLTE 500G ACS GRADE

24H0956262 04/28/2026 877-24-7 HOOCC6H4COOK 204.22

04/29/2023 Room Temperature

| Characteristics | Specifications | Measured Values | |
|------------------------|------------------|-----------------|--|
| Appearance | White crystals. | White crystals. | |
| Assay (dried basis) | 99.95 - 100.05 % | 99.98 % | |
| Chlorine Compounds | <= 0.003 % | <0.003 % | |
| Heavy Metals (as Pb) | <= 5 ppm | <5 ppm | |
| Insoluble Matter | <= 0.005 % | 0.003 % | |
| Iron | <= 5 ppm | <5 ppm | |
| pH (0.05M, Water) @25C | 4.00 - 4.02 | 4.00 | |
| Sodium | <= 0.005 % | <0.005 % | |
| Sulfur Compounds | <= 0.002 % | <0.002 % | |
| | | | |

Internal ID #: 322

Material

Grade

Batch

Storage

Reassay Date

CAS Number

Molecular Formula

Date of Manufacture

Molecular Mass

Material Description

| Signature | Additional Information |
|---|--|
| We certify that this batch conforms to the specifications listed above. | Analysis may have been rounded to significant digits in specification limits |
| This document has been electronically produced and is valid without a signature. | Product meets analytical specifications of the grades listed. |
| Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA | |

n-Hexane 95% ULTRA RESI-ANALYZED For Organic Residue Analysis





U3204 0412212025 080121 0412212025

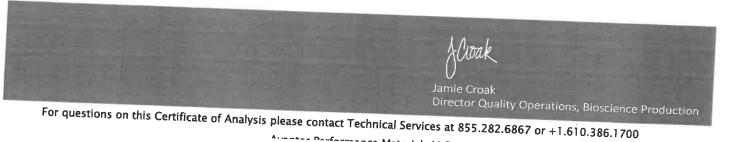
Material No.: 9262-03 Batch No.: 25C0362005 Manufactured Date: 2025-01-29 Expiration Date:2026-04-30 Revision No.: 0

Certificate of Analysis

| Test | Specification | Develo |
|---|---------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak | | Result |
| (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peal | , | · |
| (pg/mc) | <= 10 | 6 |
| ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL) | <= 5 | 5 |
| Assay (Total Saturated C6 Isomers) (byGC, corrected for water) | >= 99.5 % | 100.0 % |
| Assay (as n-Hexane) (by GC, correctedfor water) | | |
| | >= 95 % | 100 % |
| Color (APHA) | <= 10 | |
| lesidue after Evaporation | - | 10 |
| | <= 1.0 ppm | 0.1 ppm |
| ubstances Darkened by H2SO4 | Passes Test | on phil |
| ater (by KF, coulometric) | 12325 162[| Passes Test |
| | <= 0.05 % | <0.01 % |

For Laboratory,Research,or Manufacturing Use MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States Packaging Site: Phillipsburg Mfg Ctr & DC



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