

Prep Standard - Chemical Standard Summary

Order ID : Q1820

Test : BOD5,TPH,TSS

Prepbatch ID :

Sequence ID/Qc Batch ID: LB135459,LB135466,LB135467,

Standard ID :

EP2604,WP110386,WP110826,WP110827,WP110828,WP111323,WP112719,WP112720,WP112721,

Chemical ID :

E3551,E3788,M5673,M6069,M6121,W2653,W2654,W2817,W2871,W3009,W3059,W3079,W3082,W3103,W3105,W3109,W3112,W3113,W3144,W3149,W3177,



Extractions STANDARD PREPARATION LOG

Recipe ID 3923	NAME Baked Sodium Sulfate	<u>NO.</u> EP2604	<u>Prep Date</u> 04/16/2025	Prepared By RUPESHKUMA R SHAH	ScaleID Extraction_SC ALE_2	PipetteID None	Supervised By Riteshkumar Patel 04/16/2025
<u>FROM</u>	4000.00000gram of E3551 = Final Q	uantity: 400	10.000 gram		(EX-SC-2)		

<u>Recip</u>				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	lwona Zarych
1841	Sulfuric Acid, 1N	WP110386	10/24/2024	04/24/2025	Rubina Mughal	None	WETCHEM_P	
							IPETTE_3	10/24/2024
FRO	2.80000ml of M5673 + 97.20000ml of	of W3112 =	Final Quantity	r: 100.000 ml			(000)	



Recipe ID 229	NAME 1:1 HCL	<u>NO.</u> WP110826	Prep Date 11/22/2024		<u>Prepared</u> <u>By</u> Jignesh Parikh	<u>ScaleID</u> None	PipetteID None	Supervised By Iwona Zarych 11/22/2024
FROM	500.00000ml of M6121 + 500.00000r	nl of W3112	? = Final Qua	ntity: 1.000 L				
Recipe				Expiration	<u>Prepared</u>			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	lwona Zarych
2470	1664A SPIKING SOLN	WP110827	11/22/2024	04/23/2025	Jignesh Parikh	WETCHEM_S	None	, -
						CALE_8 (WC		11/22/2024
FROM	1000.00000ml of E3788 + 4.00000gr	am of W281	7 + 4.00000g	ram of W2871	= Final Quantit	SC-7) y: 1000.000 ml		
	-		-			-		



Recipe ID 3374	NAME 1664A QCS spiking solution-SS	<u>NO.</u> WP110828	Prep Date 11/22/2024		<u>Prepared</u> <u>By</u> Jignesh Parikh	ScaleID WETCHEM_S CALE_8 (WC	<u>PipetteID</u> None	Supervised By Iwona Zarych 11/22/2024
<u>FROM</u>	1000.00000ml of E3788 + 4.00000gr	am of W300	ı)9 + 4.00000g	ram of W3082	= Final Quantit	SC-7) y: 1000.000 ml		

<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> Iwona Zarych
1571	Sodium hydroxide, 1N	<u>WP111323</u>	01/09/2025	07/09/2025	Rubina Mughal	CALE_8 (WC	None	01/09/2025
FROM	4.00000gram of W3113 + 96.00000r	nl of W3112	= Final Quan	tity: 100.000 n	nl	SC-7)		



Recipe ID 127 FROM	NAME BOD Dilution fluid 18.00000L of W3112 + 3.00000PILLO		Prep Date 04/16/2025 14 = Final Qu		Prepared By Rubina Mughal	<u>ScaleID</u> None	PipettelD None	Supervised By Iwona Zarych 04/16/2025
Recipe ID 129	NAME Glutamic acid-glucose mix for	<u>NO.</u> WP112720	Prep Date 04/16/2025	Expiration Date 04/17/2025	Prepared By Rubina Mughal	ScaleID	PipettelD None	Supervised By Iwona Zarych

FROM 0.15000gram of W2653 + 0.15000gram of W2654 + 1000.0000ml of W3112 = Final Quantity: 1000.000 ml



Recipe ID 128	NAME polyseed seed control	<u>NO.</u> WP112721	Prep Date 04/16/2025		<u>Prepared</u> <u>By</u> Rubina Mughal	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Iwona Zarych 04/16/2025
FROM	1.00000PILLOW of W3059 + 300.00	000ml of WF	P112719 = Fi	nal Quantity: 36	00.000 ml			



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)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	09/21/2023 / mohan	09/05/2023 / mohan	M5673
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #

Supplier	ItemCode / ItemName	Lot #	Date	Opened By	Received Date / Received By	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)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AC156212500 / GLUTAMIC ACID BIOCHEM REG, 250G	A0405990	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2653



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	D16-500 / DEXTROSE ANHYDROUS ACS REAGENT, 500G(New)	186122A	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2654
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
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.	136742-80 / POLYSEED	152305	05/30/2025	02/15/2024 / Rubina	10/18/2023 / Iwona	W3059

ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
667-2.5 / Silica Gel -200 mesh), 2.5 KG	072154301	01/30/2029	05/07/2024 / jignesh	01/30/2024 / jignesh	W3079
56	67-2.5 / Silica Gel	67-2.5 / Silica Gel 072154301	ItemCode / ItemName Lot # Date 07-2.5 / Silica Gel 072154301 01/30/2029	ItemCode / ItemName Lot # Date Opened By 07-2.5 / Silica Gel 072154301 01/30/2029 05/07/2024 /	ItemCode / ItemName Lot # Date Opened By Received By 67-2.5 / Silica Gel 072154301 01/30/2029 05/07/2024 / 01/30/2024 /



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 #
PCI Scientific Supply, Inc.	4620-32 / MANGANOUS SULFATE SOLUTION-364	2403J02	03/31/2026	04/22/2024 / Iwona	04/22/2024 / Iwona	W3103
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE	4403S13	09/30/2025	04/22/2024 / Iwona	04/22/2024 / Iwona	W3105
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL04100-4 / Alkaline Iodide Azide, 1 L	1405D67	04/30/2026	05/23/2024 / Iwona	05/23/2024 / Iwona	W3109
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 #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / Iwona	07/08/2024 / Iwona	W3113



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	1486266 / BOD Nutrient Buffer Pillows, 6 mL concentrate to make 6 L, 50/pk	A4169	06/30/2029	11/20/2024 / rubina	10/01/2024 / Iwona	W3144
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / Iwona	10/16/2024 / Iwona	W3149
Supplier	ItemCode / ItemName	Lot #	Expiration	Date Opened /	Received Date /	Chemtech
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	Date 08/22/2025	Opened By 02/03/2025 / jignesh	Received By 01/31/2025 / jignesh	Lot # W3177





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

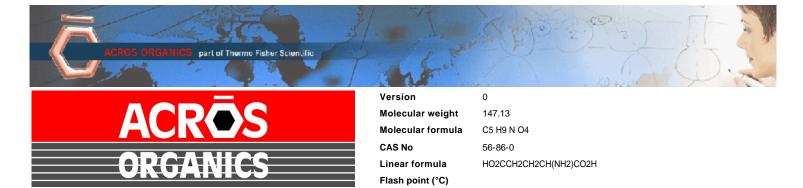
Country of Origin: US Packaging Site: Paris Mfg Ctr & DC

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

W2653 Received on 1/24/2020 by AP



Certificate of Analysis

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. Acros Organics 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 human or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing 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	15621 Quality Test / Release Date		13 March 2019	
Lot Number	A0405990	Suggested Retest Date	March 2022	
Description	L(+)-Glutamic acid,99%			
Country of Origin	CHINA			
Declaration of Origin	plant			

Origin Comment	The product is made by fermentation of sugar molasses
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Result Name	Specifications	Test Value
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Infrared spectrum	Conforms	Conforms
Titration with NaOH	98.5 to 100.5 % (On dried substance)	99.32 % (On dried substance)
Loss on drying	=<0.5 % (105°C, 3 hrs)	0.002 % (105°C, 3 hrs)
Heavy metals (as Pb)	=<10 ppm	=<10 ppm
Sulfated ash	=<0.1 %	0.08 %
Other amino acids	not detectable	not detectable
Specific optical rotation	+30.5° to +32.5° (20°C, 589 nm) (on dried substance)	+32° (20°C, 589 nm) (on dried substance)
Specific optical rotation	(c=10, 2N HCI)	(c=10, 2N HCI)
Chloride (Cl)	=<200 ppm	=<200 ppm
Iron (Fe)	=<30 ppm	=<10 ppm
Sulfate (SO4)	=<300 ppm	=<200 ppm
Ammonium (NH4)	=<200 ppm	=<200 ppm
Arsenic oxide (As2O3)	=<1 ppm	=<1 ppm

On Olen Brock



L. Van den Broek, QA Manager

Issued: 24 January 2020

Acros Organics ENA23, zone 1, nr 1350, Janssen Pharmaceuticalaan 3a, B-2440 Geel, Belgium Tel +32 14/57.52.11 - Fax +32 14/59.34.34 Internet: <u>http://www.acros.com</u> 1 Reagent Lane, Fair Lawn, NJ 07410,USA Fax 201-796-1329

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.



W 3059 Lec. 10/18/23 12



PO BOX 130549 Spring, TX 77393 Phone: (281) 298-9410 Fax: (281) 298-9411

FINISHED PRODUCT, LOT NUMBER, MFG. /EXP DATE: PolySeed® • Part No. P-110 • Lot 152305 • Mfg. Date: 05/2023 • Exp. Date: 05/2025

FORMULATION:

The formulation for this product contains a range of naturally occurring microorganisms, which are known to be non-pathogenic to man or animals.

VIABLE COUNT, FINAL TEST RESULT:

The product has been fully tested in accordance with Finished Product Specifications and contains a minimum viable count of 4.00×10^9 cfu/g.

GLUCOSE/GLUTAMIC-ACID RESULTS:

Tested results within acceptable range 198 +/- 30.5 mg/L (167.5 - 228.5 mg/L). GGA Lot# L257-09 – Average Test Result: 203.4

See www.polyseed.com for details.

SEED CONTROL FACTOR:

Tested results within acceptable range 0.6 - 1.0 see www.polyseed.com for details

SALMONELLA TEST RESULT:

The product has been shown to be Salmonella negative using procedures recommended in the Microbiology Laboratory Guidebook, published by the USDA Food Safety and Inspection Service.

The purpose of this document is to assure that the Finished Product conforms to the above specification.

Signature:

Date: 05/15/2023

Revised Jan 23

Quality Control Department

POLYSEED.Ref.1.19





1 Reagent Lane	
Fair Lawn, NJ 07410	Therma Fisher Scientifiele Quality System has been found to conform to Quality Management System
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	D16	Quality Test / Release Date	03/19/2019
Lot Number	186122A		
Description	DEXTROSE, ANHYDROUS, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Mar/2022
Chemical Origin	Organic - Plant		
BSE/TSE Comment	No animal products are used as startin processing aids, or any other material		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White, granular powder
TITRATABLE ACID	MEQ/G	<= 0.002	<0.002
STARCH		= PASS TEST	pass test
SPECIFIC ROTATION @ 25 C	DEGREES (+ OR -)	Inclusive Between +52.5 - +53.0	53.0
SULFATE & SULFITE	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
CHLORIDE	%	<= 0.01	<0.01
IGNITION RESIDUE	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
HEAVY METALS (as Pb)	ppm	<= 5	<5
LOSS ON DRYING @ 105 C	%	<= 0.2	<0.2
INSOLUBLE MATTER	%	<= 0.005	0.002

Derisa Bailing- Wyche

Quality Assurance Specialist - Certificate of Analysis 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

	ACS (CODE RMB3375)			Na ₂ SO ₄	
SPECIFICATION NUMBER :			E DATE:		
	3201	N.a.L.a.M.O	E 1./A I E.	ABR/21/2023	
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.		9 X		
Heavy metals (as Pb)		Max. 5 ppm		<0.001 %	
Iron (Fe)	Max, 0,	9 R ·	<5 ppn <0.001		
Calcium (Ca)	Max. 0.	01%	0.002 %		
Magnesium (Mg)	Max. 0.	005%	0.001 %		
Potassium (K)	Max. 0.				
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		
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If you need further details, please call our factory or contact our local distributor.

Read. by Ri on 7/293 E 3551

RE-02-01, Ed. 1

Acetone

BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis

(Vavantor"



Material No.: 9254-03 Batch No.: 23H1462005 Manufactured Date: 2023-07-26 Expiration Date: 2026-07-25 Revision No.: 0

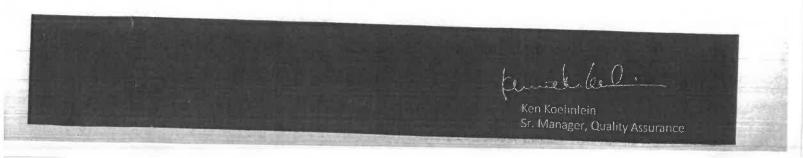
Certificate of Analysis

Test	Specification	Result	
Assay ((CH3)2CO) (by GC, corrected for water)		Result	- 73
Color (APHA)	≥ 99.4 %	99.7 %	
Residue after Evaporation	≤ 10	5	
	≤ 1.0 ppm	0.3 ppm	
Substances Reducing Permanganate	Passes Test	Passes Test	
Titrable Acid (µeq/g)	≤ 0.3	0.1	
Titrable Base (µeq/g)	≤ 0.6		
Water (H2O)	≤ 0.5 %	< 0.1	
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)		0.3 %	
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 5	< 1	
(pg/mL)	≤ 10	1	

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

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

Recd. by RP on 8/13/24 E 3788



Sulfuric Acid BAKER INSTRA-ANALYZED® Reagent For Trace Metal Analysis

Low Selenium

MS693-





Material No.: 9673-33 Batch No.: 23D2462010 Manufactured Date: 2023-03-22 Retest Date: 2028-03-20 Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H2SO4)	95.0 - 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (AI)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities - Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid BAKER INSTRA-ANALYZED® Reagent For Trace Metal Analysis Low Selenium



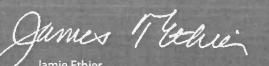


Material No.: 9673-33 Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory, Research, or Manufacturing Use

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



Jamie Ethier Vice President Global Quality

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





R->10/13/24

Met dig

Material No.: 9530-33 Batch No.: 0000275677 Manufactured Date: 2020/12/16 Retest Date: 2025/12/15

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Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCI) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl2)	<= 0.5 ppm	< 0.5
Phosphate (PO4)	<= 0.05 ppm	< 0.03
Sulfate (SO4)	<= 0.5 ppm	< 0.3
Sulfite (SO3)	<= 0.8 ppm	0.3
Ammonium (NH4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

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

Material No.: 9530-33 Batch No.: 0000275677

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	<]
Trace Impurities – Lead (Pb)	<pre>>> dqq 0.1 =></pre>	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	0.2
Frace Impurities – Magnesium (Mg)	<= 10.0 ppb	0.2
Frace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
race Impurities – Mercury (Hg)	<= 0.5 ppb	0.1
race Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
race Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
race Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
race Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
race Impurities - Selenium (Se), For Information Only	ppb	1.0
race Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
race Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
race Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
race Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
race Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.2
ace Impurities - Thallium (TI)	<= 5.0 ppb	
ace Impurities – Tin (Sn)	<= 5.0 ppb	< 2.0
ace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.8
ace Impurities – Vanadium (V)	<= 1.0 ppb	0.2
ace Impurities – Zinc (Zn)	<= 5.0 ppb	< 0.2
ace Impurities – Zirconium (Zr)	<= 1.0 ppb	0.3 < 0.1

For Laboratory, Research or Manufacturing Use Product Information (not specifications): Appearance (clear, fuming liquid) Meets ACS Specifications

Country of Origin: US Packaging Site: Phillipsburg 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



Product information

Product:

REF:

Silica 60, 0.063 - 0.200 mm

815330.25

LOT: 072154301

Technical data

Material: Description: Synthethic amorphus silica (Irregular shaped) White powder

Parameter	Specifications	Result
Specific surface (m³/g, N2 edsorption) :	450 - 550	537
Particle size distribution (screen analysis) :	< 63 µm max. 5 %	0.3
	> 200 jim max. 5 %	0.1
pH value :	6.0 - 7.5	7
Water content (%) :	<7	3.6
Pore volume (mL/g, N2 adsorption) :	0.65 - 0.85	0.82
Mean pore size (Å, N2 adsorption) :	50 - 70	62

Expiry

This product has no stated expiration date or shelf life.

We recommend to use the product within a time period of 5 years after date of QC release. This time period is valid only if the product is stored under dry and frost-free conditions. After 5 years we recommend retesting the adsorbent to make sure that the expected performance is still given.

Confirmation

Hereby we confirm, that the above mentioned product has successfully passed our quality control system in accordance with ISO 9801 and meets the specific quality criteria.

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

Date of measurement: 16.02.2023 22:00

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W3082 Received on 2/26/2026 by IZ

Product No.:	A12244

Product: Stearic acid, 98%

Lot No.: U23E020

Appearance White flakes

Assay 98.7 %

This document has been electronically generated and does not require a signature.

Thermo Fisher

Order our products online www.alfa.com



Manganous Sulfate Solution, 364 g/L

Lot Number: 2403J02

Product Number: 4620

Manufacture Date: MAR 15, 2024 Expiration Date: MAR 2026

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Manganous Sulfate Monohydrate	10034-96-5	Reagent	
Sulfuric Acid	7664-93-9	ACS	
Test	Specification	Result	

	-		
Appearance	Pink liquid	Passed	
Assay (by Refractive Index)	360-368 g/L	367 g/L	

Specification	Reference
Manganous Sulfate Solution	ASTM (D 888 A)
Manganous Sulfate Solution	ASTM (D 888 A)
Manganous Sulfate Solution	APHA (4500-O E)
Manganous Sulfate Solution	APHA (4500-O F)
Manganous Sulfate Solution	APHA (4500-O D)
Manganous Sulfate Solution	АРНА (4500-О Е)
Manganous Sulfate Solution	APHA (4500-O F)
Manganous Sulfate Solution	APHA (4500-O D)
Manganous Sulfate Solution	АРНА (4500-О С)
Manganous Sulfate Solution	АРНА (4500-О С)
Manganous Sulfate Solution	EPA (360.2)
Manganous Sulfate Solution	EPA (360.2)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
4620-32	1 L natural poly	24 months
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Recommended Storage: 15°C - 30°C (59°F - 86°F)

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Jose Pena (03/15/2024) Operations Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

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W3105 Received on 4/22/24 by IZ

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13

Product Number: 7900

Manufacture Date: MAR 29, 2024 Expiration Date: SEP 2025

This product is specially formulated to increase its stability. A preservative is added to prevent bacterial contamination. However, all Sodium Thiosulfate solutions are subject to slow chemical deterioration and should be restandardized periodically.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Thiosulfate Pentahydrate	10102-17-7	ACS
Organic Preservative	Proprietary	
Sodium Carbonate	497-19-8	ACS

Test	Specification	\mathbf{Result}	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Potassium Iodate/Starch)	0.02499- 0.02501 N at 20°C	0.02501 N at 20°C	136

Specification	Reference
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl B)
Standard Sodium Thiosulfate Titrant	АРНА (4500-О С)
Standard Sodium Thiosulfate Titrant, 0.025 M	АРНА (5530 С)
Standard Sodium Thiosulfate Solution (0.025 N)	EPA (SW-846) (9031)
Standard Sodium Thiosulfate solution (0.025 N)	EPA (SW-846) (9034)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)	
7900-1	4 L natural poly	18 months	
7900-16	500 mL natural poly	18 months	
7900-1CT	4 L Cubitainer®	18 months	
7900-32	1 L natural poly	18 months	
D 110/ 1500			

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Fand Brandon

Paul Brandon (03/29/2024) Production Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

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Alkaline-Iodide-Azide, Pomeroy Formulation for Dissolved Oxygen (DO) Analysis

Manufacture Date: APR 05, 2024 Expiration Date: APR 2026

Passed

Lot Number: 1405D67

Free Iodine

Product Number: 535

This solution is intended for use with samples with high Dissolved Oxygen content (above 15 mg/L) and for samples with high concentrations of organic material.

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Sodium Iodide	7681-82-5	ACS	
Sodium Hydroxide	1310-73-2	ACS	
Sodium Azide	26628-22-8	Reagent	
Test	Specification	Result	
Appearance	Colorless liquid	Passed	

Specification	Reference
Alkaline Iodide-Sodium Azide Solution II	ASTM (D 888 A)
recalibrated regularly in accordance with ASTM E 542 and NIST Proce traceable to the NIST national mass standard. Thermometers and temp	ASTM E 288 and NIST Circular 434; it is calibrated before first use and dure NBSIR 74-461. Balances are calibrated regularly with weights certified perature probes are calibrated before first use and recalibrated regularly with a ccording to master documents that assure manufacture according to validated ction and testing history for each lot manufactured.

To Pass Test

Part Number	Size / Package Type	Shelf Life (Unopened Container)
535-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Heidi J Green (04/05/2024) Operations Manager

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Sodium Hydroxide (Pellets)

Material:0583Grade:ACS GRADEBatch Number:23B1556310

Chemical Formula:	NaOH	Manufacture Date:		12/14/2022
Molecular Weight:	40	Expiration Date:		12/31/2025
CAS #:	1310-73-2			
Appearance:		Storage:	Room Tempe	erature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature	Additional Information
We certify that this batch conforms to the specifications listed.	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	





Sodium Hydroxide (Pellets)

Material:0583Grade:ACS GRADEBatch Number:23B1556310

 Chemical Formula:
 NaOH
 Manufacture Date:
 12/14/2022

 Molecular Weight:
 40
 Expiration Date:
 12/31/2025

 CAS #:
 1310-73-2
 Storage:
 Room Temperature

Spec Set: 0583ACS

Internal ID #: 710

Signature	Additional Information
We certify that this batch conforms to the specifications listed.	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	



Loveland, CO 80539 (970) 669-3050

An ISO 9001 Certified Company

Certificate of Analysis

This is a Component of 1486266 / LOT A4169

PRODUCT: BOD Nutrient Buffer Pillows

PRODUCT NUMBER: 1486227

LOT NUMBER: A4169

MANUFACTURE DATE: 06/24/2024

DATE OF ANALYSIS: 07/03/2024

TEST	SPECIFICATIONS	RESULTS
Calcium Concentration of a diluted pillow	0.93 to 1.29 ppm	0.960 ppm
Magnesium Concentration of a diluted pillow	0.35 to 0.48 ppm	0.390 ppm
pH in a 6 L of DI water	7.1 to 7.6	7.37
Ammonia Concentration of a diluted pillow	0.57 to 0.79 ppm	0.593 ppm
Iron Concentration of a diluted pillow	0.27 to 0.36 ppm	0.311 ppm
Sterility	To Pass	Passed
Phosphorus Concentration of a diluted pillow	7.6 to 10.3 ppm	8.32 ppm
Five Day Change in Dissolved Oxygen Concentration	-0.2 to 0.2 ppm	0.03 ppm

The expiration date is Jun 2029

Scott als Certified by:

Analytical Services Chemist

W3149 Received on 10/16/24 by IZ

Certificate of Analysis

Starch Indicator, 0.5% (w/v), Mercury Free, for Iodometric Titrations

Lot Number: 4408P62

Product Number: 8000

Manufacture Date: AUG 28, 2024 Expiration Date: AUG 2026

1490 Lammers Pike Batesville, IN 47006

1-888-GO-RICCA

http://www.riccachemical.com

customerservice@riccachemical.com

This product is Mercury-free.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Starch, soluble	9005-84-9	ACS
Salicylic Acid	69-72-7	ACS
Test	Specification	Result

Test	Specification	Result
Appearance	White translucent liquid	Passed
Suitability for Use	Colorless (Iodine absent) - Blue	Passed
	(Iodine present)	

Specification	Reference	
Starch Solution	APHA (4500-S2- F)	
Starch Indicator Solution	APHA (4500-Cl B)	
Starch Indicator	APHA (4500-SO32- B)	
Starch indicator solution	APHA (2350 B)	
Starch indicator solution	APHA (2350 E)	
Starch Solution	APHA (510 B)	
Starch Solution	APHA (5530 C)	
Starch Indicator	APHA (4500-Cl C)	
Starch Indicator	EPA (345.1)	

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
8000-1	4 L natural poly	24 months
8000-16	500 mL natural poly	24 months
8000-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon

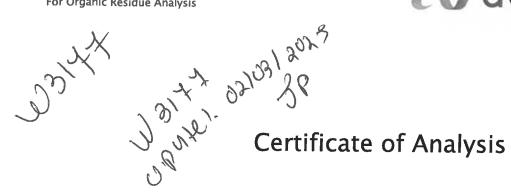
Paul Brandon (08/28/2024) Production Manager

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







Material No.: 9262-03 Batch No.: 24G1962003 Manufactured Date: 2024-05-23 Expiration Date: 2025-08-22 Revision No.: 0

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene DibromIde) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C₀ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H2SO4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

