PRECISIS 2923 A TE OF ANALYSIS

LABORATORY ADDRESS 5915 Star Lane, Houston, TX 77057 Ph. 713-680-9425 Fax: 713-680-9564

Website: precisionlabs.org

Client Name: Harcros Chemicals Inc Street Address: 4606 New West Drive City, State, Zip: Pasadena, TX 77507

INVOICE No:.	105282	DATE/TIME COLLECTED:	12/31/2024
LAB REFERENCE No:.	2024-12-542	MATRIX TYPE:	Liquid
AUTHORIZED BY:	Mitch Neal	SAMPLE TYPE:	Bulk
PRODUCT ID:	Caustic Soda 50%		
DATE RECEIVED:	12/31/2024	LOT # FA88101564	

<u>PARAMETER</u>	SPECIFICATION	TEST RESULT
Ammonium Hydroxide precipitate, Wt.%	0.01 Max	< 0.01
Assay (NaOH), Wt.%	50 Min-52 Max	50.0
Assay (Sodium carbonate), Wt.%	0.25 Max	< 0.1
Chloride (CI), Wt.%	0.005 Max	< 0.001
Color, APHA	20 Max	< 5
Heavy metals (as Ag), Wt.% EPA-6010B	0.002 Max	< 0.001
Iron (FE), Wt. % EPA-6010B	0.0005 Max	< 0.0005
Nickel (Ni), Wt.% EPA-610B	0.0005 Max	< 0.0005
Nitrogen compounds (as N), Wt.%	0.0005 Max	< 0.0005
Phosphate (PO4), Wt.%	0.0005 Max	< 0.0005
Potassium (K), Wt.% EPA-6010B	0.025 Max	< 0.002
Sulfate (SO4), Wt.%	0.003 Max	< 0.003

Daniel Zabihi QA Manager Date: 01/02/2025

PRIMARY ACCREDITATION TCEQ, #T104704203-23-17 ARIZONA LICENSE # AZ0630

QUALIFIERS & ABBREVIATIONS: BRL - Below Reporting Limit; SCL - Test performed by an approved subcontract laboratory; B - Analyte was detected in the associated method blank; Matrix spike/matrix spike duplicate (M), Laboratory control sample (L), Calibration criteria (C), and Surrogate (S) recoveries were outside acceptance limits. Test deviation applied to Method 8260 (VOCS). Sample date analyzed for each test is available upon request. *Not on laboratory's field of accreditation.

COMMENTS: This certificate is Confidential Business Information and will only be provided to designated customer point-of-contact(s). Other production of this report requires prior authorization from the customer. There were no quality assurance anomalies associated with these tests.

PRECISION PETROLEUM LABS, INC.'S RESPONSIBILITY FOR THE ABOVE ANALYSIS, OPINIONS OR INTERPRETATIONS IS LIMITED TO THE INVOICE AMOUNT. RESHLIS ARE REPORTED ON AN "AS IS" BASIS, UNLESS OTHERWISE NOTED. THE TEST RESULTS RELATE ONLY TO THE SUBMITTED SAMPLE IDENTIFIED ON THIS REPORT. TEST RESULTS MEET ALL REQUIREMENTS OF NELAC FOR TESTS LISTED ON THE LABORATORY'S CURRENT FIELDS OF ACCREDITATION (EPA 1910, 6810, 8082, 8260, and 9075).



Certificate of Analysis

Reagent Chemical & Research Inc. 115 US Highway 202 Ringoes NJ 08551

Covestro LLC 1 Covestro Circle Pittsburgh PA 15205

Date 2024-12-27

Page 1 / 1

Product name SODIUM HYDROXIDE SOL 50%

TANK TRUCK

Product number 02818640

Customer purchase order data

3450424 Reagent Chemical & Resear

Order quantity 20866 KG

Cust. purchase order 151002562 821184

Order data

Order no. 3014691360 / 10

Delivery no. 4008770652 / 10 Quantity delivered 20580 KG

VEH. Ident. 303/303

Manu. location: Baytown, Texas, USA

Batch data

Batch no. PA88101564 Quantity delivered

Date shipped 20580 KG

2024-12-27

Date of manufacture 2024-12-09

Inspection 080000371241 Result Specification Unit NaOH Appearance Clear and free Assay (NaOH) 50,09 49.00 - 51.50 Na2Ó 38.81 37.97 - 39.90 % Sodium chloride 31 <= 100 ppm Iron 1 ppm <= 3 Sodium Chlorate 4 <= 20 ppm Sodium Sulfate 3 <= 20 ppm Sodium Carbonate 0.0050

If any question related to this certificate arise, please contact: Tel.: 877-229-3778

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