

CERTIFICATE OF ANALYSIS



Liquid Caustic Soda, 50%

Product Grade: **Membrane**
Tank Number: **3**
Location: **Wilmington, NC**

ANALYSIS	RESULT	UNIT	SPEC LIMITS	METHOD
SODIUM HYDROXIDE (NaOH)	50.00	Wt %	49.0 - 51.0	ASTM E291
SODIUM OXIDE (Na ₂ O)	38.74	Wt %	38.0 - 39.5	ASTM E291
SODIUM CHLORIDE (NaCl)	26	PPM	75 Max	ASTM E1787
SODIUM CARBONATE (Na ₂ CO ₃)	0.02	Wt %	0.10 Max	ASTM E291
SODIUM CHLORATE (NaClO ₃)	6	PPM	65 Max	ASTM E1787
SODIUM SULFATE (Na ₂ SO ₄)	3	PPM	100 Max	ASTM E1787
IRON (Fe)	0.8	PPM	5.0 Max	ASTM E291
ALUMINUM (Al)	<1.0	PPM	40 Max	ICP
CALCIUM (Ca)	<1.0	PPM	60 Max	ICP
COPPER (Cu)	<1.0	PPM	2 Max	ICP
MANGANESE (Mn)	<1.0	PPM	1.0 Max	ICP
NICKEL (Ni)	<0.5	PPM	0.75 Max	ICP
SILICON DIOXIDE (SiO ₂)	<10.0	PPM	400 Max	ICP
APPEARANCE	CFSM			VISUAL
SPECIFIC GRAVITY (@ 60 °F)	1.530			ASTM D4052

PRODUCT NUMBER 370325
LOT NUMBER 391443
ANALYSIS PERFORMED BY AmSpec
EFFECTIVE DATE 4/29/2026



NOTE: This product meets all provisions of Food Chemicals Codex, Latest Edition (FCC)
Certified to NSF/ANSI/CAN 60, MUL 100mg/L

Brenntag Global Marketing, LLC
5810 Tennyson Parkway
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Plano, TX 75024
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Product Grade: **Membrane**
Tank Number: **3**
Location: **Wilmington, NC**

ANALYSIS	RESULT	UNIT	SPEC LIMITS	METHOD
SODIUM HYDROXIDE (NaOH)	49.86	Wt %	49.0 - 51.0	ASTM E291
SODIUM OXIDE (Na ₂ O)	38.63	Wt %	38.0 - 39.5	ASTM E291
SODIUM CHLORIDE (NaCl)	31	PPM	75 Max	ASTM E1787
SODIUM CARBONATE (Na ₂ CO ₃)	0.01	Wt %	0.10 Max	ASTM E291
SODIUM CHLORATE (NaClO ₃)	12	PPM	65 Max	ASTM E1787
SODIUM SULFATE (Na ₂ SO ₄)	3	PPM	100 Max	ASTM E1787
IRON (Fe)	1.9	PPM	5.0 Max	ASTM E291
ALUMINUM (Al)	<1.0	PPM	40 Max	ICP
CALCIUM (Ca)	<1.0	PPM	60 Max	ICP
COPPER (Cu)	<1.0	PPM	2 Max	ICP
MANGANESE (Mn)	<1.0	PPM	1.0 Max	ICP
NICKEL (Ni)	<0.5	PPM	0.75 Max	ICP
SILICON DIOXIDE (SiO ₂)	<10.0	PPM	400 Max	ICP
APPEARANCE	CFSM			VISUAL
SPECIFIC GRAVITY (@ 60 °F)	1.529			ASTM D4052

PRODUCT NUMBER 370325
LOT NUMBER 395658
ANALYSIS PERFORMED BY AmSpec
EFFECTIVE DATE 5/13/2026



NSF/ANSI/CAN 60

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CERTIFICATE OF ANALYSIS



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Location: **Wilmington, NC**

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SODIUM CHLORIDE (NaCl)	31	PPM	75 Max	ASTM E1787
SODIUM CARBONATE (Na ₂ CO ₃)	0.01	Wt %	0.10 Max	ASTM E291
SODIUM CHLORATE (NaClO ₃)	12	PPM	65 Max	ASTM E1787
SODIUM SULFATE (Na ₂ SO ₄)	3	PPM	100 Max	ASTM E1787
IRON (Fe)	1.9	PPM	5.0 Max	ASTM E291
ALUMINUM (Al)	<1.0	PPM	40 Max	ICP
CALCIUM (Ca)	<1.0	PPM	60 Max	ICP
COPPER (Cu)	<1.0	PPM	2 Max	ICP
MANGANESE (Mn)	<1.0	PPM	1.0 Max	ICP
NICKEL (Ni)	<0.5	PPM	0.75 Max	ICP
SILICON DIOXIDE (SiO ₂)	<10.0	PPM	400 Max	ICP
APPEARANCE	CFSM			VISUAL
SPECIFIC GRAVITY (@ 60 °F)	1.529			ASTM D4052

PRODUCT NUMBER 370325
LOT NUMBER 395658
ANALYSIS PERFORMED BY AmSpec
EFFECTIVE DATE 5/13/2026



NSF/ANSI/CAN 60

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