COMMITMENT TO CUSTOMERS

For nearly seven decades, our alkali business has been a dependable source of trona that we use to make caustic soda. Genesis Alkali caustic soda is produced by reacting our soda ash with lime and natural gas.

As the world’s #1 producer of natural alkali products, we have built a solid track record of meeting the needs of customers in a wide range of industries. Caustic soda is an essential element in a vast array of important everyday uses, including:

- Soaps & detergents
- Textiles
- Chemical neutralizations
- Water treatment
- Food processing
- Pigments and fillers
- Industrial cleaning
- Oil drilling
- Ore and mineral processing
- Biodiesel productions
- Aluminum processing
- Fuel processing

So when you need to apply paint or remove paint, our caustic soda is there. When you bleach your clothes or bleach your hair, our caustic soda is there. When you wash your hands or wash your car, Genesis Alkali caustic soda is there. Genesis Alkali produces ingredients that make life cleaner, safer, and more enjoyable.

Our experienced team of professionals is committed to continually developing new techniques, new products and new ways to better serve our customers. This steady focus on innovation, combined with our superior supply chain expertise, allows us to bring vital, versatile products to our customers in the most cost-effective manner possible. Our customized supply chain solution, supported by our online customer eOrder center, are examples of our commitment to continuous innovation.

With the longstanding success of our Green River operations, Genesis Alkali has a proud history of sustainable, safe and ethical extraction of trona ore. From this naturally occurring mineral, we make caustic soda. We back our legacy with breakthrough process technologies and superior customer care.
## Chemical Form

**Formula**

Sodium Hydroxide, 50% Solution

**Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide, as NaOH, %</td>
<td>50.2%</td>
<td>49.5 – 51.0%</td>
</tr>
<tr>
<td>Total Alkalinity, as Na₂O, %</td>
<td>39.0%</td>
<td>38.4 – 41.5%</td>
</tr>
<tr>
<td>Iron, as Fe, ppm</td>
<td>1.2 ppm</td>
<td>4.0 max</td>
</tr>
<tr>
<td>Silica, as Si, ppm</td>
<td>75 ppm</td>
<td>200 max</td>
</tr>
<tr>
<td>Sodium Carbonate, as Na₂CO₃, wt %</td>
<td>0.15%</td>
<td>0.3 max</td>
</tr>
<tr>
<td>Sodium Chloride, as NaCl, %</td>
<td>0.045%</td>
<td>0.20 max</td>
</tr>
<tr>
<td>Sodium Sulfate, as Na₂SO₄, ppm</td>
<td>370 ppm</td>
<td>600 max</td>
</tr>
</tbody>
</table>

## General Properties

**Description**

Water White Liquid

**pH, 1% solution**

13.0

Our sodium hydroxide meets all requirements of the American Water Works Standard ANSI/AWWA B501-03. It has also been tested and certified by the National Sanitation Foundation for use in pH adjustment. It is a non-food grade product containing no allergens, sensitizing agents, sulfites or monosodium glutamate. It is an inorganic solution with no caloric value, vitamins, fats, carbohydrates or proteins.

## Packaging and Delivery Options

Genesis Alkali caustic soda is available in bulk shipped by specialty tank railcar or specialty tanker truck.