



## Sodium Hydroxide Pellets – ACS, NF/FCC, Multi-Compendia

### PRODUCT PROFILE

#### Characteristics

Sodium hydroxide pellets are odorless, white, solid hemispheres of uniform diameter and thickness manufactured for human consumption in an FDA registered, cGMP 21CFR Part 110, and SQF Level 2 manufacturing facility in Midlothian, TX. The pellet form reduces dusting and caking so the product stores and handles better. Chemtrade certifies to ACS Reagent grade, NF/FCC grade, and Multi-compendia BP/EP/JP. The product is Kosher and Halal Certified, recognized as a GRAS ingredient by the FDA, free of many allergens, BPA free, BSE/TSE free, non-GMO, and free of pesticides.

Properties	
Chemical Formula	NaOH
Molecular Weight	40.00
Absolute Density, g/cm <sup>3</sup>	2.13
Melting Point, °C	318.4
Boiling Point, °C	1390
Solubility in Water*	42 at 0°C
*Soluble in alcohol, glycerol	114 at 25°C
*Insoluble in ether and acetone	347 at 100°C

#### Specifications

	REAGENT ACS	NF / FCC / BP / EP / JP
Assay, % NaOH	97.0 minimum	95.0-100.5 (total alkali) (NF) 97.0%-100.5% (EP) 95.0% min (JP)
<i>Maximum limits of impurities:</i>		
Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ), %	1.0	3.0 (NF) / 2.0 ( EP, JP)
Content of Sodium, %	-	54.0-59.8 (NF)
Chloride (Cl)	0.005 %	50 ppm (JP, EP)
Nitrogen Compounds (N), %	0.001	-
Phosphate (PO <sub>4</sub> ), %	0.001	-
Sulfate (SO <sub>4</sub> )	0.003 %	50 ppm (EP)
Ammonium Hydroxide Precipitate, %	0.002	-
Heavy Metals (as Ag), %	0.002	-
Heavy Metals (as Pb), ppm	-	30 (JP)
Iron (Fe)	0.001 %	10 ppm (EP)
Nickel (Ni), %	0.001	-
Potassium (K), %	0.02	To pass test (JP) / NMT 0.5 (NF)
Mercury (Hg)	0.1 ppm	0.1 mg/kg (FCC) / To pass test (JP)
Insoluble Substances and Organic Matter, ppm	-	To pass test (NF, FCC)
Lead (Pb), ppm	-	2 (FCC)
Arsenic (As), ppm	-	3 (FCC)
Calcium, %	0.005	-
Magnesium, %	0.002	-



## Markets & Applications

### Food

- ✦ pH and alkalinity adjustment
- ✦ Lye peeling of vegetable and fruits

### Pharmaceuticals

- ✦ pH and alkalinity adjustment
- ✦ Reactant, catalyst, and processing aid
- ✦ Softener for epidermis
- ✦ Clean-in-Place Systems

### Chemicals

- ✦ Neutralizer and alkalinity control in analytical chemistry
- ✦ Absorption of NO<sub>x</sub>, SO<sub>3</sub>, and CO<sub>2</sub> in gas streams
- ✦ Manufacture of high-purity sodium compounds

### Electronics

- ✦ Etchant in semiconductor wet processing

### Photography

- ✦ Photoengraving and lithography

### Soaps

- ✦ Hydrolyzing fats

## CORPORATE HEADQUARTERS

Chemtrade Logistics, Inc.  
155 Gordon Baker Road, Suite 300  
Toronto, Ontario M2H 2N5 Canada

### SELECT SPECIALTIES SALES

*Sales Inquiries:*  
[SelectSpecialty@chemtradelogistics.com](mailto:SelectSpecialty@chemtradelogistics.com)  
*To Place Orders:*  
(844) 204 9674  
[cssorders@chemtradelogistics.com](mailto:cssorders@chemtradelogistics.com)

## Logistics

### MANUFACTURING & SHIPPING LOCATION

ACS, NF / FCC / BP / EP / JP  
Midlothian, TX USA

### SHIPPING REGULATIONS

Hazard Class: 8  
Label: *Corrosive*  
ID Number: *UN1823*  
Proper Shipping Name:  
*Sodium Hydroxide, Solid*  
Packing Group: *II*  
RQ: *1000 lbs. (CASRN Formula Basis)*



### PACKAGING OPTIONS

- ✦ 55 lb./25 kg. plastic pail with poly bag liner
- ✦ 110 lb./50 kg. fiber drum with poly bag liner

### Shelf Life

3 years from date of manufacture. Some caking may develop within 1 year.

### Storage Conditions

Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store in original container or corrosive resistant and/or lined container. Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Storage areas should be periodically checked for corrosion and integrity.

### Product Safety Information

As with any chemical, sodium hydroxide requires care in handling. Anyone procuring, using or disposing of these products or their containers must be familiar with the appropriate safety and handling precautions. Such information may be found in the Safety Data Sheet (SDS) for these products or you may contact Chemtrade at 416-496-5856.

In the event of an emergency with these products, call the 24 hour Emergency Number:  
*US Only: (CHEMTREC) (800) 424-9300*