

PRODUCT IDENTIFICATION



Product Name: Komodo Drain Cleaner Technical Grade

CAS Number: 1310-73-2

Molecular Formula: HNaO

Molecular Weight: 39.997 g/mol

Grade: Technical Grade

Purity / Concentration: 100%

Synonyms: Drain Cleaner Solution, Pipe Unclogger

PRODUCT OVERVIEW

Komodo Drain Cleaner is a high-purity Technical Grade sodium hydroxide solution, CAS 1310-73-2, formulated for superior performance in industrial maintenance. With a 99% assay titration and minimal trace contaminants, this powerful reagent effectively clears stubborn obstructions and manages pH levels in demanding environments.

Grade Significance: Technical Grade indicates a product optimized for industrial and utility applications where high efficacy is required, but pharmaceutical or food-grade purity is not necessary. This balance provides a cost-effective solution without compromising on the chemical strength needed for heavy-duty tasks.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (Titration)	%	99	97	100.0	Titration
Specific Gravity (20°C)	g/mL	2.13	2.128	2.132	Hydrometer @ 20°C
Iron	ppm	0.5	0	3	ICP
Chloride (Cl ⁻)	ppm	17	0	100.0	Ion chromatography
Sulfate (SO ₄ ²⁻)	ppm	16	0	40	Ion chromatography
Carbonate	%	0.03	0	0.1	Titration

ND = Not Detected. Values are typical and may vary by lot.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	White solid flakes, opaque crystalline	Odor	Odorless
Form	Liquid	Boiling Point	greater than 266 °F at 760 mmHg (USCG, 1999)
Melting / Freezing Point	604 °F (USCG, 1999)	Flash Point	NA
Specific Gravity	1.84	Solubility	Highly water soluble, dissolves rapidly
Molecular Formula	HNaO	Molecular Weight	39.997 g/mol
Vapor Pressure (20°C)	Negligible	Viscosity (25°C)	1.0
Refractive Index (20°C)	1.333	Density (25°C)	1.15 g/mL
Partition Coefficient (log P)	-1.8	Decomposition Temp.	Decomposes at high heat; reacts with acids

APPLICATIONS

1. **Commercial Plumbing** — Utilized by facilities management to rapidly dissolve organic clogs, grease, and hair buildup in large-scale drainage systems.
2. **Wastewater Treatment** — Acts as a critical pH adjuster to neutralize acidic waste streams before discharge into municipal sewer systems.
3. **Chemical Manufacturing** — Serves as a reliable reagent for various synthesis processes requiring high-concentration caustic soda.
4. **Food Service** — Effectively breaks down heavy fats, oils, and grease deposits in commercial kitchen grease traps and plumbing lines.

STORAGE & HANDLING

Due to its corrosive nature and classification under H290 and H314, this chemical must be stored in specialized, corrosion-resistant containers to prevent structural damage. Proper containment is essential to avoid accidental contact, which causes severe skin burns and eye damage.

- Store in a cool, dry place away from incompatible materials.
- Use HDPE containers for storage to prevent chemical reactions.
- Avoid contact with acids and organic materials to prevent hazardous reactions.
- Ensure proper ventilation when handling to avoid inhalation of vapors.
- Wear appropriate personal protective equipment (PPE) including gloves and goggles.

AVAILABLE PACKAGING

- 2 lbs.
- 4 Lbs.
- 50 Lbs.

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



Hazard Statements:

- H290: May be corrosive to metals
- H314: Causes severe skin burns and eye damage

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

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