

PRODUCT IDENTIFICATION



Product Name: Komodo Drain Cleaner
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 technical grade sodium hydroxide (NaOH) product, available as white solid flakes that form a liquid solution when dissolved. With a high assay of 98.5%, this drain cleaner is effective for clearing clogged drains and pipes in commercial and industrial settings. It is also suitable for pH adjustment in wastewater treatment.

Grade Significance: Technical Grade Komodo Drain Cleaner indicates that the product is suitable for industrial and commercial applications where a high degree of purity is required, but not necessarily the highest available. It provides a cost-effective solution for various processes without compromising on performance.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (wt%)	%	98.5	97	—	Titration with HCl
Color (APHA)	APHA	10	—	20	ASTM D1209
Specific Gravity (20°C)	g/mL	1.52	1.51	1.54	ASTM D4052
Residue After Ignition	%	0.05	—	0.1	Gravimetric Analysis
Water Content	%	0.4	—	1	Karl Fischer Titration
Iron (Fe)	ppm	5	—	10	ICP-OES
Chloride (Cl ⁻)	ppm	10	—	25	Ion Chromatography

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	1388°C (2530°F)
Melting / Freezing Point	318°C (604°F)	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-1.8 P)		Decomposition Temp.	Decomposes at high heat; reacts with acids

APPLICATIONS

1. **Commercial Plumbing** — Komodo Drain Cleaner is used to clear clogged drains and pipes in commercial and industrial settings. Its high concentration of NaOH effectively breaks down organic matter and blockages, restoring proper flow.
2. **Industrial Kitchens** — This product is effective in breaking down grease buildup in kitchen plumbing systems. Regular use helps prevent clogs and maintain efficient drainage in high-volume cooking environments.
3. **Wastewater Treatment** — Komodo Drain Cleaner is utilized for adjusting pH levels in wastewater treatment processes. Its strong alkaline properties allow for precise control of acidity, ensuring compliance with environmental regulations.
4. **Chemical Manufacturing** — Serves as a reagent in various chemical manufacturing processes. Its high purity and consistent composition make it a reliable component in chemical reactions and formulations.
5. **Metal Processing** — Used in metal cleaning and etching processes to remove surface contaminants and prepare metals for further treatment. The strong alkaline nature of the solution aids in the effective removal of oils, grease, and oxides.
6. **Pulp and Paper Industry** — Employed in the pulping process to delignify wood fibers. The sodium hydroxide helps to break down the lignin, separating the cellulose fibers for paper production.

STORAGE & HANDLING

Proper storage of Komodo Drain Cleaner is crucial to maintain its integrity and prevent accidents. Due to its corrosive nature (H314), it should be stored in tightly sealed containers, away from incompatible materials, moisture, and extreme temperatures. This prevents degradation of the product and minimizes the risk of dangerous reactions or spills.

- 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:

- H314: Causes severe skin burns and eye damage [Danger Skin corrosion/irritation]

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.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

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