

PRODUCT IDENTIFICATION



Product Name: Drain Hammer - Sulfuric Acid Drain Cleaner

CAS Number: 7664-93-9

Molecular Formula: $\text{H}_2\text{O}_4\text{S}$

Molecular Weight: 98.08 g/mol

Grade: Technical

Purity / Concentration: 100%

Synonyms: Sulfuric Acid Drain Opener, Drain Cleaner with Sulfuric Acid

PRODUCT OVERVIEW

Drain Hammer is a highly concentrated sulfuric acid solution designed for effective drain cleaning. As a strong acid, it acts as a powerful oxidizing agent, facilitating the breakdown of organic materials and clearing blockages in plumbing systems.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (Titration)	%	93.57	91.8	94.2	Titration
Color (APHA/Hazen)	APHA	3	0	100.0	Spectrophotometry
Specific Gravity (20°C)	g/mL	1.83	1.825	1.835	Hydrometer @ 25°C
Non-Volatile Residue	%	0.0030	—	0.01	Residue on Ignition
Arsenic Antimony As As	ppm	0.0050	0	0.01	ICP-MS
Heavy Metals As Pb	ppm	2	0	5	ICP-MS (as Pb)
Iron (Fe)	ppm	1.37	0	50	ICP-MS
Chloride Cl	ppm	0.05	0	0.2	ICP
Nitrate No3	ppm	0.1	0	0.5	ICP
Mercury Hg	ppm	0.01	0	5	ICP-MS
Sulfite So3	ppm	11.5	0	50	ICP
Turbidity	NTU	1	0	50	EPA 180.1

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Colorless, oily liquid	Odor	Odorless
Form	Liquid	Boiling Point	276 °C (529 °F) (93% solution)
Melting / Freezing Point	-29.5 °C (-21 °F) freezing point (93% solution)	Flash Point	Not applicable (non-flammable)
Specific Gravity	1.835	Solubility	Miscible with water and organic solvents
Molecular Formula	H ₂ O ₄ S	Molecular Weight	98.08 g/mol
Vapor Pressure (20°C)	0.3 mmHg	Viscosity (25°C)	1.0 cP
Refractive Index (20°C)	1.406	Density (25°C)	1.84 g/mL
Partition Coefficient (log P)	-3.0	Decomposition Temp.	No decomposition below 300°C (decomposes with strong heating)

APPLICATIONS

1. **Plumbing** — Utilized for clearing clogged drains and pipes by dissolving organic matter.
2. **Industrial** — Serves as a reagent in various chemical reactions requiring strong acids.
3. **Water Treatment** — Used to lower pH levels in wastewater treatment processes.
4. **Research** — Acts as a dehydrating agent in laboratory synthesis and analysis.
5. **Manufacturing** — Applied in the cleaning of metal surfaces prior to further processing.

STORAGE & HANDLING

- Store in a cool, dry, well-ventilated area away from incompatible materials.
- Use containers made of HDPE or glass to prevent corrosion.
- Avoid exposure to moisture and direct sunlight to maintain product integrity.
- Wear appropriate personal protective equipment (PPE) including gloves and goggles when handling.
- Ensure proper ventilation in storage and usage areas to mitigate fume accumulation.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

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.

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