

# Citric Acid Slurry 50%

50% Citric Slurry in Water

## Product Overview

Citric Acid Slurry 50% is a distinctive formulation that combines 50% citric acid and 50% water, resulting in a thick, semi-liquid texture. This solution typically possesses an acidic pH level ranging between 2 to 3. Due to its high solubility in water and other polar solvents, as well as its stability under standard storage conditions, Citric Acid Slurry 50% is highly versatile despite being sensitive to extreme heat and light. Its applications span across various industries. In the food and beverage sector, it serves as a flavor enhancer, preservative, and acidity regulator, particularly in soft drinks, fruit juices, and candies. Citric Acid Slurry 50% is also essential in pharmaceuticals as an excipient in the formulation of effervescent tablets and syrups. In cosmetics and personal care products, this slurry is a key ingredient in products such as face masks and bath bombs, due to its skin-friendly acidic nature. Furthermore, its effectiveness as a cleaning agent, especially in eliminating limescale and other mineral deposits, highlights its multi-purpose utility.

## Specifications

Assay (%).....	48-50%
Water (%) .....	50%
Density/.....	1.23-1.24
Oxalate/Oxalic Acid (%) .....	0.036 max
Sulfate (%) .....	0.015 max
Arsenic (ppm) .....	1 max
Heavy Metals (ppm) .....	5 max
Lead (ppm) .....	0.5 max

## Benefits using Citric acid slurry comparing Anhydrous Form

**Versatility in Industry Applications:** In the food and beverage industry, it enhances flavors, preserves freshness, and regulates acidity. In pharmaceuticals, it assists in the formulation of medicines. In cosmetics, it's valued for its skin-friendly properties, and in cleaning products, it's effective **for removing mineral deposits.**

**Environmental Friendliness: Citric acid is biodegradable, making the slurry an environmentally responsible choice. 0**

**Safety in Usage:** Being a slurry it is generally considered safe for handling and during production.

**Economic Efficiency:** Citric Acid Slurry is cost-effective in terms of transportation and storage, due to its liquid form which is easier to handle and mix compared to solid forms.

**Consistency in Quality:** The semi-liquid form ensures uniformity in the mixture, providing consistent quality and efficacy in its applications.

**Ease of Handling and Storage:** The slurry's semi-liquid state simplifies handling and mixing processes. It also requires standard storage conditions, making it easy to store without needing special equipment.

## Packaging

IBC Totes= 2650 Pounds= 264 Gallons

## Safety & Handling

Handling citric acid safely is crucial, especially in industrial settings like the oil and gas industry where the quantities and concentrations used are significantly higher than in household applications. Here are some key safety measures for handling citric acid:

**Personal Protective Equipment (PPE):** Even though citric acid is less hazardous than many industrial chemicals, appropriate PPE should still be worn. This includes gloves, goggles, and protective clothing to prevent skin and eye contact.

**Respiratory Protection:** In areas where citric acid dust or aerosols may be present, use appropriate respiratory protection to prevent inhalation. This is particularly important in scenarios where citric acid is used in powder form.

**Handling and Storage:** Citric acid should be stored in a cool, dry place away from incompatible substances. Proper labeling and secure storage containers are essential to prevent accidental exposure or mixing with other chemicals.

**Avoiding Ingestion and Inhalation:** Although citric acid is commonly found in food, industrial-grade citric acid should not be ingested. Measures should be in place to avoid accidental inhalation or ingestion, including the use of dust suppression systems and ensuring good ventilation in work areas.

**First Aid Measures:** Workers should be trained in first aid measures in case of exposure to citric acid. This includes flushing the skin or eyes with water in case of contact, and seeking medical attention if necessary.

**Spill Response:** Procedures should be in place for dealing with spills of citric acid, including the use of neutralizing agents, containment, and cleanup procedures to prevent environmental contamination or worker exposure.

**Training and Information:** Workers handling citric acid should be properly trained in its safe handling, including understanding the material safety data sheet (MSDS) for citric acid, which provides detailed information on handling, hazards, and emergency measures.

**Waste Disposal:** Waste containing citric acid should be disposed of in accordance with local environmental regulations to prevent contamination of water sources or harm to the environment.

**Emergency Procedures:** Emergency procedures should be in place in case of accidental exposure or spillage. This includes having emergency showers and eyewash stations readily accessible in areas where citric acid is handled.

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