

# Wallace & Tiernan® Chlorine Dioxide Generation Systems

## Sulfuric Acid 78% Co-Reactant

Sulfuric Acid 78% solution is specified as a co-reactant for the generation of chlorine dioxide solutions using the SVR-Pure or Purate® acid generating systems. All Sulfuric Acid 78% used as a co-reactant in Wallace & Tiernan® chlorine dioxide generators must meet the minimum specifications described below. Sulfuric Acid 78% that does not meet these specifications SHOULD NOT be used in Wallace & Tiernan® chlorine dioxide generating systems.

### Typical Physical Properties

Appearance	Colorless to slightly yellow liquid
Odor	Pungent, irritating odor
Solubility in Water	Complete
Specific Gravity	1.71 at 15°C (60°F)
Freezing Point	-11.3°C (11.6°F)
pH (as supplied)	< 1

Typical properties are listed for information only, and are not to be considered as specification requirements. These items are not analyzed on a routine basis.

### Specifications

Iron, maximum ppm	100
K number	<5
Color	passes test

### Typical Application

- Co-reactant for generation of chlorine dioxide

### Typical Feed Requirements

Sulfuric Acid 78% solution is used in conjunction with other chlorine dioxide precursors to generate chlorine dioxide.

Sulfuric Acid 78% solution must be used only in conjunction with approved chlorine dioxide generation equipment and in accordance with the operating instructions of the generator.

For additional treatment information, including dosage specific to your application, please contact your Siemens representative.



## Storage and Handling

Store in closed, properly labeled, rubber-lined steel, acidresistant plastic, or glass containers. Store in a cool, dry, well-ventilated place away from heat, cold, metals, strong oxidizing agents, strong alkalis or reactive materials. Avoid direct sunlight. Store at temperatures above -36°C, (-33°F) Always use care when opening containers and keep tightly closed when not in use. Do not reuse containers.

Sulfuric Acid 78% is corrosive. Wear personal protective equipment, such as goggles, face shield, gloves, and other protective clothing when handling. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Use only thoroughly clean, dry utensils when handling. Avoid breathing vapors or mists.

See Material Safety Data Sheet for additional safety and handling information before storing or handling Sulfuric Acid 78%.

## Packaging

Sulfuric Acid 78% is typically available in totes, and in bulk quantities. For further information, please contact your Siemens representative.

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