

SULFUR DIOXIDE

CAS No. 7446-09-5

Alternative names

SO₂

INEOS Calabrian is a leading supplier of sulfur dioxide and related derivatives. INEOS Calabrian manufactures sulfur dioxide and related derivatives such as sodium bisulfite, sodium metabisulfite, sodium thiosulfate and sodium sulfite in its integrated manufacturing facilities. Serving the global market from manufacturing sites in Port Neches, TX, USA and Timmins, ON, Canada. The products are used in a broad range of industrial and municipal wastewater treatment applications to achieve compliance with federal and local water regulations, as well as other specialty applications in personal care, pulp and paper processing, food preservation, oilfield production, mining and disinfection.

Specifications

Parameter	Units	Lower Limit	Upper Limit
Sulfur Dioxide (SO ₂)	wt.%	99.9	100.0
Non-volatiles	ppm	0	50
H ₂ SO ₄	ppm	0	25
Moisture	ppm	0	100

Physical Properties

Parameter	Typical Value
Boiling point at atmospheric pressure	14°F (-10°C)
Critical temperature	314.8°F (157.1°C)
Critical Pressure	77.7 atm.
Specific gravity of liquid at 32°F (0°C) (water = 1)	1.43
Specific gravity of gas at 32°F (0°C) and atmosphere (air = 1)	2.26
Density of gas at 32° F (0°C) and 1 atmosphere	2.92 kg/m ³
Viscosity of liquid at 32°F (0°C)	0.39 centipoise

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INEOS Calabrian

Product meets FCC, ACS and/or USP Specifications. It is Kosher and NSF certified to NSF/ANSI Standard 60.

Health and Safety

Contact will cause burns to eyes and skin due to its inherent freezing effect. Sulfur dioxide gas is irritating to the throat and upper respiratory system and can cause suffocation. Anhydrous Sulfur dioxide is non-corrosive to steel or other commonly used metals. Corrosiveness greatly increases with moisture. Refer to SDS for full health and safety information.

Delivery

Shipped in insulated tank cars, tank trucks and isotainers as a liquid under pressure.

Inquiries

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Or visit our website:

<https://www.ineos.com/businesses/ineos-enterprises/businesses/ineos-calabrian/>

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