



Scott Medical Products

ACTIVE PHARMACEUTICAL INGREDIENTS SULFUR HEXAFLUORIDE (SF₆)

An inert, odorless, colorless, non-toxic gas, Sulfur Hexafluoride is used as both the active ingredient in ultrasound contrast agents and as a retinal tamponade.

Manufactured in production lots under cGMP conditions, Sulfur Hexafluoride is available to fill your gas or pharmaceutical chemical requirement.

Custom specifications or packaging can be developed as required.

PURITY AND SPECIFICATIONS

- **Identification:** Meets Relative Retention Time Ratio (RRTR) Specification
- **Purity:** 99.97% by weight minimum purity
- **Air:** Maximum 0.01% by weight
- **Carbon Tetrafluoride (CF₄):** Maximum 0.02% by weight
- **Water:** Maximum 1.4 ppm by weight
- **Color:** Clear and Colorless
- **Acidity as Hydrogen Fluoride(HF):** Maximum 0.1 ppm by weight
- **Hydrolyzable Fluorides as Hydrogen Fluoride:** Maximum 0.1 ppm by weight
- **Heavy Metal:** Maximum 5 ppm by weight

PHYSICAL PROPERTIES:

- Molecular Weight: 146.054
- Specific Volume @ 21.1°C, 101.325 kPa: 2.5 CF/lb, 156.1 dm³/kg
- Vapor Pressure @ 21.1°C: 334.7 psia, 23.08 bar
- Sublimation Point @ 101.325 kPa: -63.7°C; -82.7°F
- Melting Point @ 224 kPa: -50.8°C, -59.4°F
- Relative Density, gas @ 101.325 kPa, 20°C: 5.114
- Critical Temperature: 45.5°C, 114.0°F
- Critical Pressure: 545.2 psia, 37.59 bar
- Critical Volume: 1.356 dm³/kg
- Critical Density: 0.736 kg/dm³
- Critical Compressibility factor: 0.267

CHEMICAL PROPERTIES:

- Reactivity: Not reactive
- Compatibility:
 - Metals: most metals, including aluminum, steel, brass, stainless steel, monel
 - Seals: Neoprene, EPDM, Viton[®], Teflon[®]
- Stability: Two year shelf life

SHIPPING INFORMATION

- Shipping class: 70
- U.S. DOT classification: Non-flammable gas
- U.S. DOT label: Green, non-flammable gas
- C.A.S Registry No.: 2551-62-4
- U.N. #: 1080
- Supplied in both refillable and non-refillable compressed gas cylinders



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Headquartered in Plumsteadville, Pennsylvania, Scott Medical Products is a member of the Scott Specialty Gases Group with eleven strategically located manufacturing facilities throughout the United States and Europe.

To request additional information, discuss your application, create custom specifications, or place an order, contact us at 800-233-4334 or 215-766-8861, or visit us on-line at www.scottmedicalgases.com.