



Scott Medical Products

ACTIVE PHARMACEUTICAL INGREDIENTS PERFLUOROPROPANE (C₃F₈)

Perfluoropropane is used in a variety of medical applications, such as the active ingredient in ultrasound contrast agents and as a retinal tamponade. Known for its chemical and biological inertness, it is supplied as a liquefied gas under its own vapor pressure of 100 psig (6.8 bar). Scott manufactures the product under cGMP's, offers the product in a wide variety of cylinder sizes in quantities customized for your application, and can work with you to develop custom specifications and meet your specific purity requirements.

PURITY AND SPECIFICATIONS

- **Purity:** 99.8% minimum purity
- **Perfluoropropylene (C₃F₆):** Maximum 10 ppm
- **Air:** Maximum 1000 ppm
- **Hydrogen Fluoride (HF):** Maximum 1 ppm
- **Heptafluoropropane (C₃HF₇):** Maximum 500 ppm
- **Carbon Tetrafluoride (CF₄):** Maximum 100 ppm
- **Heavies (C_xF_{2x+2}: represented by C₄F₁₀ through all integrated peaks up to RT = 25 min peaks to 25 min):** Maximum 500 ppm
- **Perfluoroethane (C₂F₆):** Maximum 500 ppm
- **Unknown Impurities:** Maximum 0.1% (total)

PHYSICAL PROPERTIES:

- **Molecular Weight:** 188.020
- **Specific Volume:** 2.02 CF/lb, 126.1 dm³/kg
- **Vapor Pressure:** 114.8 psia; 100 psig; 6.8 bar
- **Boiling Point:** -36.7°C; -34.1°F, at 101.325 kPa
- **Relative Density:** 6.69, at 101.325 kPa @ 20°C
- **Compressibility factor:** 0.279

CHEMICAL PROPERTIES:

- **Reactivity:** Not reactive
- **Compatibility:**
 - **Metals:** most metals, including aluminum, steel, brass, stainless steel, monel
 - **Seals:** Buna-N, Kel-F, 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.:** 76-19-7
- **U.N. #:** 2424
- **Supplied in 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.