

HAIFLON® Fluorinated Fluid FT-7200 — Ethyl Perfluorobutyl Ether

Electronic fluorinated fluid (C₄F₉OC₂H₅) · cleaning agent, solvent and heat-transfer medium

Haiflon® FT-7200 electronic fluorinated fluid is ethyl perfluorobutyl ether (C₄F₉OC₂H₅), a colourless, transparent liquid. With zero ozone depletion potential (ODP), low global warming potential (GWP), short atmospheric residence time, high chemical and thermal stability, low toxicity and low surface tension, it is an ideal replacement for ozone-depleting substances (ODS) and is widely used in medical, electronics, metals, precision instruments, optical lenses, communications and aerospace applications.

Product Features

- ✧ Zero ODP and low GWP — environmentally responsible ODS replacement
- ✧ High chemical and thermal stability
- ✧ Non-flammable, low toxicity and safe in use
- ✧ Low surface tension — excellent wetting and penetration
- ✧ Colourless, transparent, high-purity liquid (> 99.5 %)

Typical Physical Properties

Item	Specification — FT-7200
Chemical name	Ethyl perfluorobutyl ether
Molecular formula	C ₄ F ₉ OC ₂ H ₅
Molecular weight	264.09
Appearance	Colourless, transparent liquid
Purity, %	> 99.5
Boiling point, °C	76
Vapour pressure (25 °C), mmHg	109
Liquid density (25 °C), g/ml	1.430
Freezing point, °C	-138
Solubility of solvent in water, ppmw	< 20
Solubility of water in solvent, ppmw	74.4
Absolute viscosity (25 °C), cP	0.63
Specific heat (25 °C), J/g·°C	1.137
Surface tension, mN/m	13.6

Applications

- ✧ Precision and general cleaning agent (medical, electronics, optical lenses, precision instruments)
- ✧ Solvent for fluorinated coatings and specialty formulations
- ✧ Heat-transfer medium / refrigerant in temperature-control applications

Material Compatibility

- ✧ Compatible with most metals (aluminium, copper, brass, carbon steel, stainless steel, molybdenum, tantalum, tungsten and alloys) after immersion at boiling temperature.
- ✧ Compatible with most plastics and elastomers, including sensitive polymers such as polycarbonate and PMMA (epoxy resins, PET, polypropylene, phenolic resin, ABS, butyl rubber, natural rubber, EPDM).
- ✧ Exceptions: PTFE and silicone rubber may show some swelling; surface oxidation of copper may occur during thermal ageing.

Safety Precautions

- ✧ FT-7200 is non-flammable, thermally stable and of low toxicity during use; a high level of use safety.
- ✧ Avoid prolonged skin contact and avoid inhaling vapour in confined spaces.
- ✧ Please refer to the Safety Data Sheet (SDS) provided by our company before use.

Packing & Storage

- ✧ Standard package: 1 kg / 5 kg containers.
- ✧ Industrial big drums available on request.
- ✧ Keep sealed in a dry, ventilated place, away from direct sunlight.