



Novec™ Non-Flammable Fluids for Histology Applications

Safety, Performance and Convenience You Can Trust



Traditional fluids used for freezing histology samples (including isopentane) are highly flammable and toxic. This has implications for worker safety, operating procedures, building code compliance and liability. Today's laboratories demand a safer alternative without compromising performance. We are pleased to offer 3M™ Novec™ Engineered Fluids in convenient package sizes to meet your laboratory needs.


Benefits

- Non-flammable, low toxicity
- High density = reduced frost
- Inert to embedding medium
- Inert to tissue sample
- Less volatile = lower evaporation
- Low global warming potential (GWP)
- Low odor

Histology Bath Fluid Comparison

	Novec™ 7000	Novec™ 7100	Isopentane
Liquid Density (25°C)	1.40 g/mL	1.52 g/mL	0.6 g/mL
Oral Toxicity	Low toxicity	Low toxicity	Toxic
Skin Irritation	Negative	Negative	Irritant
Eye Irritation	Minimal irritation	Minimal irritation	Irritant
Mutagenicity	Negative	Negative	Unknown
Flash Point	None	None	< -51°C
Freeze Point	-122.5°C	-135°C	-160°C
Boiling Point @ atmosphere	34°C	61°C	28°C
Flammability	None	None	Extremely

Product Name	Product Description	Cat. No.
Novec™ 7000 Engineered Fluid 	3M™ Novec™ 7000 Engineered Fluid, 1-methoxyhepta-fluoropropane, is a non-flammable, low GWP heat transfer fluid capable of reaching -120°C. It is also useful as a direct expansion refrigerant.	SHH0001-500ML SHH0001-1L
Novec™ 7100 Engineered Fluid 	3M™ Novec™ 7100 Engineered Fluid, methoxy-nonafluorobutane (C ₄ F ₉ OCH ₃), is a clear, colorless and low-odor fluid intended to replace ozone-depleting substances (ODSs) and compounds with high GWP in many applications.	SHH0002-500ML SHH0002-1L

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