

Technical Data Sheet

IoLiTherm 40 – Fluorinated Electronic Fluid

Revision Date: 4/1/2025

Date Issued: 4/7/2025

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name	IoLiTherm 40 Fluorinated Electronic Fluid
Product code	IoLiTherm 40
CAS	311-89-7
Supplier	IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D – 74076 Heilbronn Germany
Telephone	+49 (0)7131-89839-0
Fax	+49 (0)7131-89839-109
Email	info@iolitec.de

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	Perfluorotributylamine
CAS No.	311-89-7
REACH Registration	Not registered.
Purity	> 99%

3 PHYSICAL PROPERTIES

	IoLiTherm 40	3M™ FC-40
Color	Colorless	Colorless
Physical state (25°C)	Liquid	Liquid
Boiling point (°C)	158 - 173	165

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Pour point (°C)	< -100	-57
Liquid density (g/cm³)	1.8-1.9	1.86
Latent Heat of Vaporization (J/g)	70-83	69
Surface tension (dyn/cm)	16-18	16
Viscosity (cSt)	1.6 – 2.8	2.2
Vapor pressure (Pa)	< 133	287
Dielectric Strength (0.1”gap)	35 -50 (kV)	46 (kV)
Dielectric Constant	1.8 – 2.0	1.9
Flammability	Nonflammable	Nonflammable

4 APPLICATION

IoLiTherm 40 is a fluorinated electronic fluid and can be used as replacement for 3M™ FC-40. The non-flammable and non-corrosive fluid with its high boiling point, low viscosity and low surface tension can be used as heat transfer agent.

Areas of application: Cold cleaner; Cleaning and rinsing agent for vapor degreasing; Lubricant carrier, Spray contact cleaner.

It shows comparable/similar properties as 3M™ FC-40 and should be 100% miscible with it.

Environmental, health and safety information are provided in the Safety Data Sheet.

5 ORDER INFORMATION

Package sizes: **1 kg, 2.5 kg, 5 kg, Bulk-Quantities** (plastic canister)

We also provide the possibility of purchasing test samples (up to 5 kg) prior ordering MOQ.

Price information is available upon request.

Please send your order via email to mmm@iolitec.de or fax +49 (0)7131 – 89839109.

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6 OTHER INFORMATION

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