

# 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

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

### 2 COMPOSITION/INFORMATION ON INGREDIENTS

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

### 3 PHYSICAL PROPERTIES

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

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<b>Pour point (°C)</b>	< -100	-57
<b>Liquid density (g/cm<sup>3</sup>)</b>	1.8-1.9	1.86
<b>Latent Heat of Vaporization (J/g)</b>	70-83	69
<b>Surface tension (dyn/cm)</b>	16-18	16
<b>Viscosity (cSt)</b>	1.6 – 2.8	2.2
<b>Vapor pressure (Pa)</b>	< 133	287
<b>Dielectric Strength (0.1''gap)</b>	35 -50 (kV)	46 (kV)
<b>Dielectric Constant</b>	1.8 – 2.0	1.9
<b>Flammability</b>	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](mailto:mmm@iolitec.de) or fax +49 (0)7131 – 89839109.

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### 6 OTHER INFORMATION

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