

Technical Data Sheet

IoLiTherm 3283 – Fluorinated Electronic Fluid

Revision Date: 7/14/2023

Date Issued: 12/4/2023

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

Product name	IoLiTherm 3283 Fluorinated Electronic Fluid
Product code	IoLiTherm 3283
CAS	338-83-0
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	Perfluorotripropylamine
CAS No.	338-83-0
REACH Registration	Not registered.
Purity	> 99%

3 PHYSICAL PROPERTIES

	IoLiTherm 3283	3M™ FC-3283
Color	Colorless	Colorless
Physical state (25°C)	Liquid	Liquid
Boiling point (°C)	128	123-133

Technical Data Sheet

IoLiTherm 3283 – Fluorinated Electronic Fluid

Revision Date: 7/14/2023

Date Issued: 12/4/2023

Pour point (°C)	-65	-65
Critical Temperature (°C)	235	235
Liquid density (g/cm³)	1.78-1.86	1.82
Liquid Specific Heat (J/kg°C)	1100	1100
Liquid thermal conductivity (W/m°C)	0.066	0.066
Coefficient of Expansion (°C⁻¹)	0.0012	0.0014
Surface tension (dyn/cm)	14.6	14.6
Viscosity (cSt)	0.7-0.9	0.75
Vapor pressure (kPa)	1.44	1.44
Critical pressure (MPa)	1.22	1.22
Dielectric Strength (0.1"gap)	> 45	> 40 (kV)
Flammability	Nonflammable	Nonflammable

4 APPLICATION

IoLiTherm 3283 is a fluorinated electronic fluid and can be used as replacement for 3M™ FC-3283. The non-flammable and non-corrosive fluid with its excellent heat resistance, chemical resistance as well as hydrolytic stability can be used as single-phase heat transfer agent.

Areas of application: Cooling temperature control in semiconductor manufacturing; Electronic cleaning agent; Fluorocarbon solvent.

It shows comparable/similar properties as 3M™ FC-3283 and is 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.

Technical Data Sheet

IoLiTherm 3283 – Fluorinated Electronic Fluid

Revision Date: 7/14/2023

Date Issued: 12/4/2023

Price information are available upon request.

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

6 OTHER INFORMATION

DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT IS NOT PURPOSED TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. IOLITEC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

IN NO WAY SHALL IOLITEC BE LIABLE FOR ANY CLAIMS, LOSSES OR DAMAGES OF ANY THIRD PARTY OR FOR THE LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.