



## Xenon Difluoride. XeF<sub>2</sub>

**Product information** Xenon difluoride is an etchant primarily for silicon, molybdenum and tungsten thin films.

**Characteristics** Solid crystals. Colorless to white. Combustible materials, oxidizing materials, reducing agents.

<b>Physical data</b>				
<b>Molecular weight</b>	[g/mol]	169.29		
<b>Boiling point</b>	at 1.013 bar [°C]	155	at 14.5 psi [°F]	237.2
<b>Density</b>	at 1.013 bar, 15 °C [kg/m <sup>3</sup> ]	8.163	at 1 atm., 70 °F [lb/ft <sup>3</sup> ]	0.498
<b>Vapor pressure</b>	at 0 °C [bar]	4.17	at 32 °F [psi]	60.46
	at 20 °C [bar]	7.69	at 70 °F [psi]	115.05
<b>Flammability range in air (% volume)</b>				

<b>Shipping information</b>				
UN number	CAS number	EC number	DOT label	Hazard labels required
3085	13709-36-9	237-251-2	Oxidizing solid, toxic	ADR Class 5.1 DOT Class 5.1

<b>Product specification</b>	<b>Purity grade</b>	<b>Typical purity</b>	<b>Typical impurities [ppm]</b>												
			Al	Ca	Cr	Co	Cu	Fe	Li	Mg	Mn	Mo	Ni	K	Na
	5.0N	≥99.999 %	<2	<1	<3	<1	<2	<8	<1	<1	<1	<1	<5	<1	<1

## Package options PTFE bottles

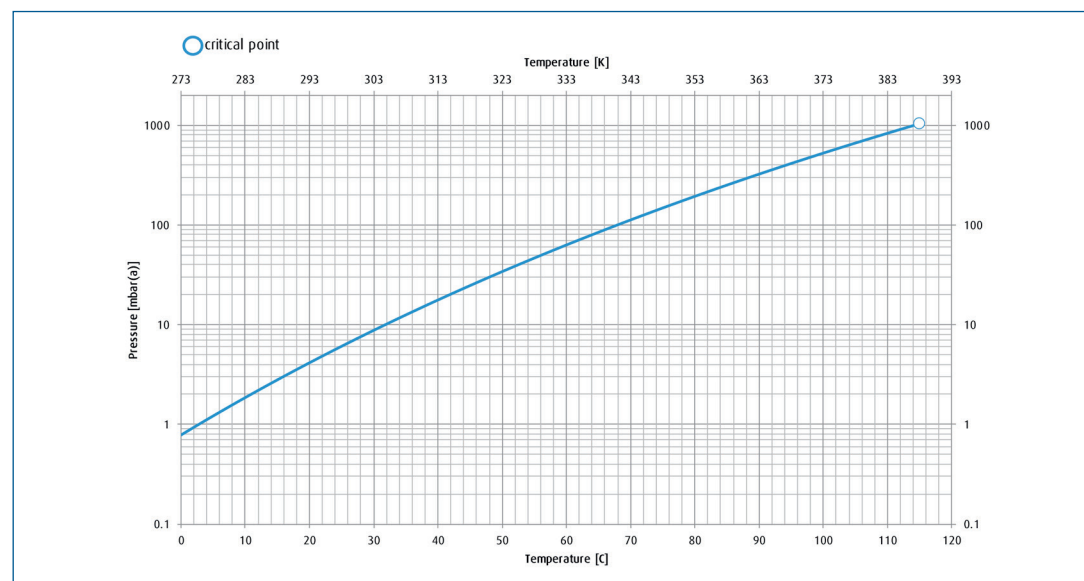
Water volume	Mass XeF <sub>2</sub>	Part Number
50 ml	1 – 100 g	XeF2-11
250 ml	100 – 500 g	XeF2-12
500 ml	500 - 1000 g	XeF2-13

## Cylinders

Water volume	Product Mass (max)	Valve connection	A	B	C	D	Mass (empty)
0.3 l	600 g	1	51	237	305	305	696 g
		2	51	237	276	325	740 g
		3	51	252	292	372	1,002 g
1.0 l	2,000 g	1	81	298	365	365	1,390 g
		2	81	298	320	370	1,380 g
		3	81	298	326	391	1,600 g
3.0 l	5,000 g	4	111	422	450	515	3,500 g
15.3 l	25,000 g	4	184	835	867	947	16,600 g

1. Straight pattern, 1/4" VCR male outlet fitting and cap
2. Angle pattern, 1/4" VCR male outlet fitting and cap
3. High purity tied diaphragm, angle pattern, 1/4" VCR male outlet fitting and cap
4. High purity tied diaphragm, angle pattern, CGA716 outlet and cap

## Vapor pressure curve



## Additional information

The information, recommendations, and data contained in this publication are intended to give basic guidance for safe handling and use of gases. For more information, please refer to Safety Data Sheets. You can locate these through the [Linde Safety Data Sheet Search](#). It is essential for the safe use of gases that personnel are properly trained and are fully aware of the possible hazards. Further information and advice on any matter relating to the safe handling or use of these products may be obtained from the nearest Linde office.

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