

PRODUCT TECHNICAL SHEET LIQUID NITROGEN (LIN)

DATE: February 2024

Version: 2


Ref. No.: PS006



Liquid Nitrogen (LIN), is a colourless, odourless and non-toxic liquid. A wide range of cryogenic vessels is available so that the supply can be adapted to demand.

Physical Data	
Specific Volume @20°C	861.5ml/g
Molecular Weight	28.01
Boiling Point at 101.325kPa	-195.8°C
Relative Density (air= 1) at 101,325 kPa	0.967 kg/m ³

Gas Specification	
Purity	>99.99%
CO	<5 PPM
CO ₂	<300 PPM
O ₂	<10 PPM

Transport/ Storage Information	
	
UN No 1977	Class 2.2
Store only in approved temperature and pressure rated equipment	
Do not trap liquid between closed valve	
Do not transport in an enclosed vehicle	

Hazards	
Extremely cold cryogenic Liquid	
Asphixiant in high concentrations	
All portable Cryogenic (PCC's) containing cryogenic liquids must be regarded as pressure vessels at all times	

Uses and Features	
Freezing and transporting of food products	
The cryopreservation of biological samples, such as sperm, eggs, and animal genetic samples	
Use as a coolant for superconductors, vacuum pumps, and other materials and equipment	
Use in cryotherapy to remove skin abnormalities	
The molecular gastronomy preparation of unusual foods and beverages	



Supply Information	
Details of a wide range of storage vessels and ancillary equipment are available from Les Gaz Industriels Ltd	