ALIGAL™ 1 (Nitrogen food) / N_2

ALIGAL™, the Air Liquide food grade solution

Applications

Food grade gases for modified atmosphere packaging, beverages, other food processing applications
MAP (Modified Atmospheric Packaging)
Carbonation

Transport information

Compressed gases

Proper shipping name	Nitrogen, compressed
UN-Nr	1066
ADR/RID	Class 2
	Classification code 1A

Refrigerated Gases

Proper shipping name	Nitrogen, refrigerated liquid
UN-Nr	1977
ADR/RID	Class 2
	Classification code 3A

Safety Data Sheets

Compressed gas : SDS-089A-CLP
Access:
https://drive.google.com/open?id=1kUbQeBkkyu1hTlyU3TSBrbg7pHOhySDD&usp=drive_copy

Physical information

Molecular weight	28,01 g/mol
Relative density:	
Relative density, gas	0,97 (air=1)
Relative density, liquid	0,8 (water=1)
Relative density, liquefied Gas	0,8 (water=1)
Colour	Colorless
Odor	Odorless
CAS number	7727-37-9

Properties

Hazards identification: In high concentrations may cause asphyxiation

Flammability range: Inert; non-flammable

Personal protection: TLV (ACGIH): Simple asphyxiant

Cylinder equipment

Valve fittings
200 Bar - BS 341 No. 3
300 Bar – NEVOC CEN 1
Shoulder colour:
Black (RAL 9005)

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Product Specifications

Global purity (% Vol. abs) N_2	Impurities (ppm v/v)		Supply mode	Packaging size	Pressure	Capacity	Product reference
≥ 99,995 %	H_2O (5 bar)	≤ 50 ppm v/v	Cylinder	50L	200 bar	9,52 m3	I4020L50R2A001
	O_2	≤ 20 ppm v/v	Cylinder	50L	230 bar	11,15 m3	I4020L50R4A001
	CO	≤ 10 ppm v/v	Cylinder	50L	300 bar	12,8 m3	I4020L50R3A001
	NO/NOx	≤ 10 ppm v/v	Bundle	V14*47L	200 bar	125,2 m3	I4020V14Z2A001
	CnHm	≤ 30 ppm v/v	Bundle	V12	300 bar	152,2 m3	I4020V12R3A001
			Bundle	V16	300 bar	208,8 m3	I4020V16R3A001

Additional information

GAS density S.T.P: 1.185 Kg/m3

Equivalent gas/liquid (15°C) / 1 bar): 691 l.

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