

AMMONIA / NH₃



Air Liquide delivers ammonia in Europe under optimal safety conditions in a mode of supply to suit each of our customer's needs: cylinder, container or liquid

Air Liquide's Gas Encyclopedia - Pages: 951 - 972

Applications

Chemical synthesis
Refrigerating fluid

Transport information

Liquified Gases

Proper shipping name	Ammonia, anhydrous
UN-Nr	1005
ADR/RID	Class 2
	Classification code 2 TC



Safety Data Sheets

Liquefied gas : EIGA002
Access: <https://be.airliquide.com/>

Physical information

Molecular weight	17 g/mol
Relative density:	
Relative density, gas	0.6 (air=1)
Relative density, liquid	0.7 (water=1)
Colour	Colorless
Odor	Ammoniacal
CAS number	7664-41-7

Properties

Hazards identification: Toxic by inhalation. Flammable gas. Causes severe skin burns and eye damage. Contains gas under pressure; may explode under the effect of heat. Very toxic to aquatic organisms. Corrosive to the respiratory tract

Flammability range: 15.4 to 33.6 (% vol in the air)

Personal protection: Ensure adequate ventilation – protect eyes, face and skin from liquid splashes



Cylinder equipment

Valve fittings

Cylinder: B5 - W 21.8 x 1.814 right-hand, male

Shoulder colour:

Yellow (RAL 1018)



Product Specifications

Global purity (% Vol. abs) NH ₃	Impurities (ppm v/v)	Supply mode	Packaging size	Pressure	Capacity	Product reference
≥ 99,96 %	H ₂ O ≤ 400	Cylinder	83L	6 bar	44 kg	I9080L83R0A001
	Oil ≤ 5	Cylinder	83L DIP TUBE	6 bar	44 kg	I9080L83T0A001
		LGC	R99 1000L	6 bar	500 kg	I9080R99R0A001

Disclaimer

L'AIR LIQUIDE S.A. and/or its affiliates ("AIR LIQUIDE") are not responsible for the use or consequences of use of the information contained in this Product sheet. AIR LIQUIDE does not hold itself out as recommending the use of the information contained herein or reliance thereon in any way, makes no warranties regarding the information contained in this document and assumes no liability or responsibility in connection with the information or suggestions contained herein. AIR LIQUIDE makes no representations or warranties regarding the completeness of this document and DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO, WARRANTY OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR USE OR PURPOSE. The information contained in this product sheet is based on the technical information and experience currently available to AIR LIQUIDE. This document should not be confused with regulations (national or European), insurance requirements or codes. Moreover it should not be assumed that every acceptable local grade, test or safety procedure or method, precaution, equipment or device is contained herein, nor that abnormal or unusual circumstances may not warrant or suggest further requirements or additional procedures. It is up to users of this document to ensure that they have the latest edition. AIR LIQUIDE may, at its sole discretion, add, delete or change some or all of the information contained in this Product sheet. It is strictly forbidden to copy or reproduce some or all parts of this Product sheet without the written authorisation of AIR LIQUIDE. AIR LIQUIDE owns, reserves and retains all proprietary rights, including copyright, to the present Product sheet. This Product sheet and the photographs and images contained herein shall not be copied or reproduced in any way, sold, loaned, transferred or otherwise distributed to others, used for any purpose or in any manner detrimental to the interest of AIR LIQUIDE. The trademarks, service marks, trade names, logos or other indications of origin displayed in this Product sheet are registered and unregistered trademarks of AIR LIQUIDE or a third party from whom AIR LIQUIDE has obtained the right to use them in this Product sheet. Use of any copyright materials and/or trademarks is subject to the written approval of AIR LIQUIDE on a separate permission form.