



G R I T
gases research innovation
& technology

The gas specialist company

Grit values

Global vision

- We provide tailor-made solutions that satisfy the whole supply chain of our customers

Safety first

- For our customers, facilities and people safety is the main principle we accomplish

Continuous improvement

- The willingness to be better is the engine of everything we do

Our people is the core of our business

- Highly qualified and engaged colleagues that work towards a common purpose

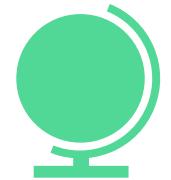
Committed to sustainability

- We anticipate the future developing and implementing sustainable gas solutions that are environmentally responsible

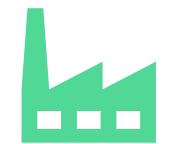
Key figures - Grit



40
employees



Located in
Spain



site in Avinyó
(Barcelona)

4
Activities:

- Aerosol
- Blowing agents
- Refrigerants
- Chemical Specialties

€37 million

in revenues for 2022



Founded in
2001



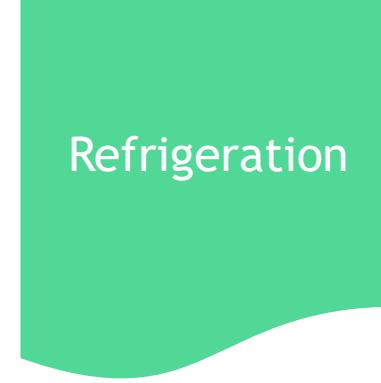
Strategic plan to
surpass **100**
million € in
revenues by 2025



Business units



Aerosol



Refrigeration



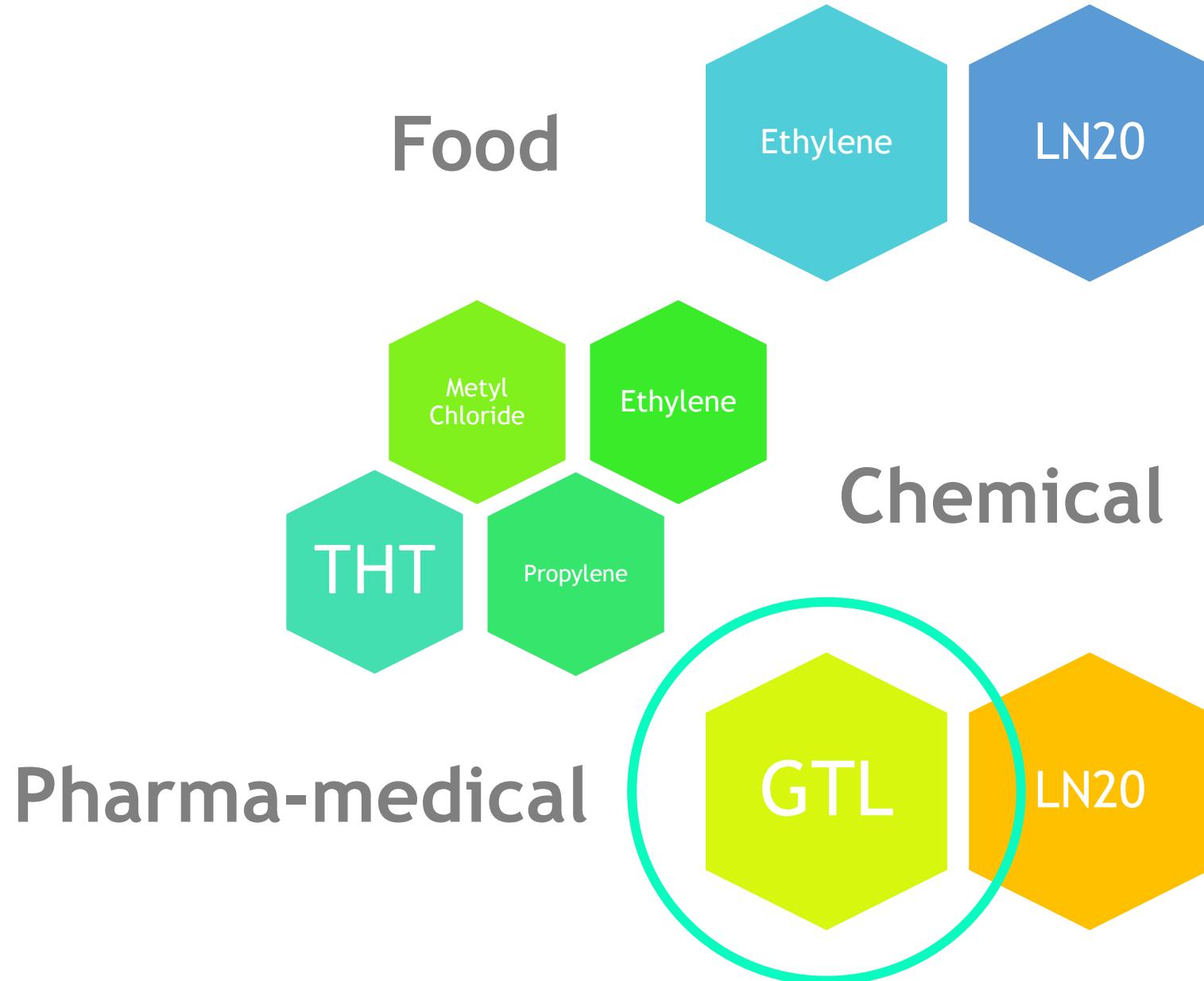
Blowing Agents



Chemical
Specialties

R&D team dedicated to the 4 business units

Specialities business unit - markets



Value proposition GTL



Less Risks

- No hazardous gas handling
- No need of legalized storage by MIE-APQ-05
- No need of trained people in the hazardous gas handling
- No waste as a result of mixing gases



More Productivity

- No need of gas-use installations
- Dedicated areas for gas-use free for other added value purposes
- Non maintenance costs
- Increase reaction yield



Increased Flexibility

- Just-in-Time service
- GTL can be delivered in all the stages of the API development, from R&D to manufacturing
- Tailored mixtures of acid/basic and solvent

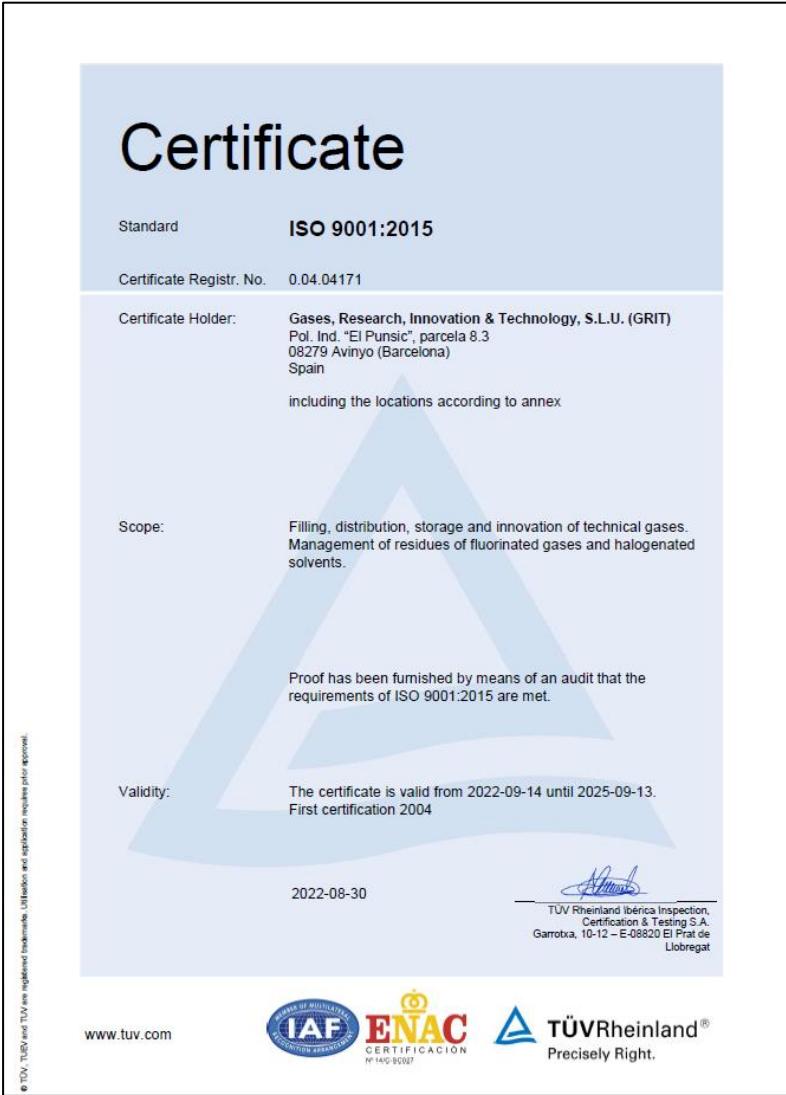
Our plant



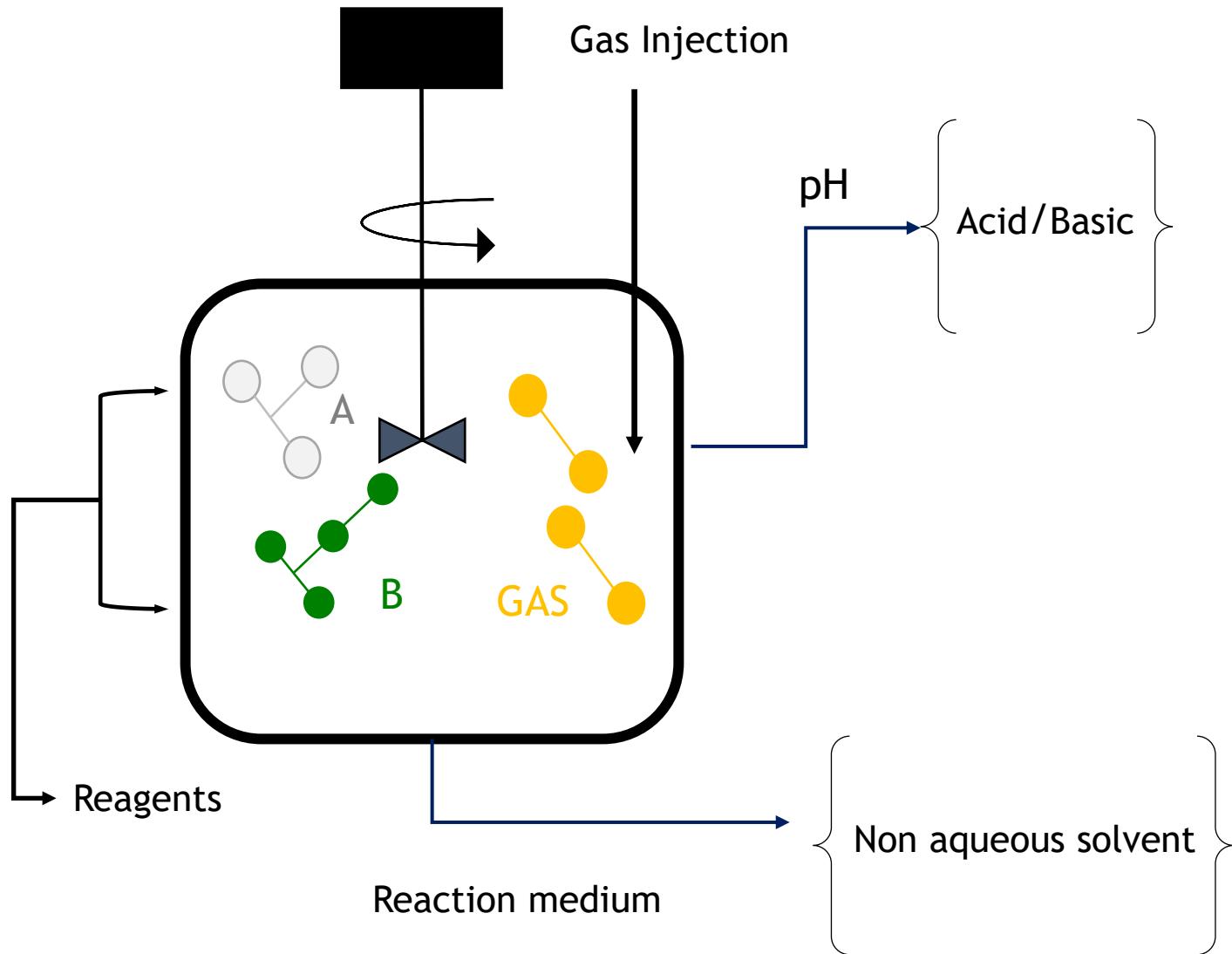
GTL dedicated area

- Located in Avinyó (Barcelona, Spain)
- Remarkable investment in the last two years in the GTL facility

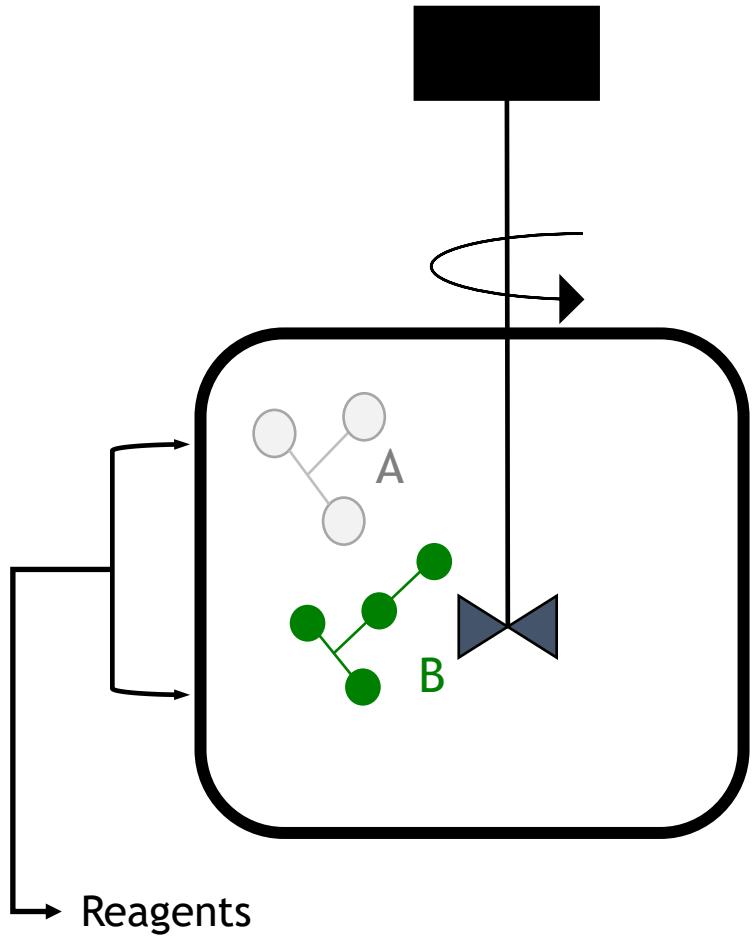
Driven by quality



Before Gas-to-Liquid



After Gas-to-Liquid



GTL tailored solution



Less Risks



More Productivity



Increased Flexibility

GTL Packaging



Special Drums of 205 L:
ADR homologation 6HA1.
Metal drums with internal
HDPE



IBC'S of 1000 L: 31HA1
ADR homologation,
ATEX certificates



Mini Stainless-steel tanks
for high pressure solutions

CoA - example

 **GRIT**
gases research innovation
& technology

**Hydrogen Chloride in
Isoproyl acetate 3.5 M**

Lot No.: PC17-00641/25/002
Seal No.: --
Date of analysis: 30/07/2019

UN 2924 Flammable liquid, Corrosive N.O.S.

Parameter	Specification	Units	Result	Method
Aspect	Colourless, transparent liquid	—	Pass	Visual
Density (at 20° C)	0,89-0,91	kg/l	0,89	Pycnometer
HCl Concentration	3,3-3,7	Molar	3,5	Acid-base titration
Moisture	≤ 0,05	%	0,01	Karl - Fisher

Certificate of analysis according to sales specification hydrogen chloride in isopropyl acetate 3.5M v. 2 to GRIT S.L.U.

Gabriel M.
Quality manager

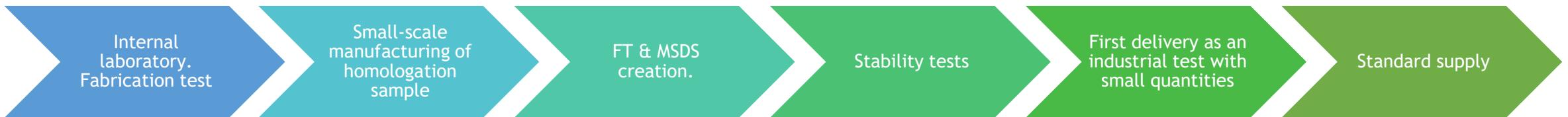
Traceability and lots



Purchase order of the solvent	Production week	Correlative number
-------------------------------	-----------------	--------------------

- Each container has a single batch and is a single batch of manufacturing
- The original documentation of each delivery (CoA raw materials, production order, packing slips and COA of each lot) are stored for 5 years

Standard homologation process



Our tailor-made gas mixtures

Gas	Solvent	Concentration (% weight)
HCl	CPME	12
HCl	EtAc	8
HCl	EtOH	29
HCl	IPA	24
HCl	IPA	18
HCl	IPA	15
HCl	IPA	13
HCl	IPA	10
HCl	1,4-dioxane	14
HCl	IPrOAc	14
HCl	MeOH	6
HCl	MeOH	14
MMA	EtOH	33
MMA	MeOH	33
MMA	MeOH	8,5
NH3	MEG	15
NH3	MeOH	15

All gas-to-liquid solutions are tailor-made to our customers production needs in terms of components and solution concentration



G R I T
gases research innovation
& technology

THANK YOU

GRACIAS GRÀCIES TACK DANKE
OBRIGADO HVALA TAK GRAZIE MERCI
KIITOS DÍK PALDIES KÖSZÖNÖM