

¹²⁹Xe in the form of gas mixtures for hyperpolarization and magnetic resonance imaging (MRI)



Hyperpolarization of Xenon-129 is a revolutionary new diagnostic imaging tool for the magnetic resonance imaging (MRI) technology.

Hyperpolarized Xenon-129 makes it possible to capturing high-resolution, 3D images of the lung using a conventional MRI scanner.

Due to the varying solubility of Xenon in different environment, it is additionally possible to illuminate organ functions and tissue characteristics in a total way.



Our Xenon-129 gas mixtures are optimized for the use in polarizers made by Polarean Inc.*

Our Xenon-129 products are manufactured in accordance with cGMP regulations.

* www.polarean.com

Xenon-129 in the form of gas mixtures

Specification

Physical and chemical properties:

- Material ^{129}Xe in the form of gas mixture is available with two different compositions.
- Composition
 - Mixture 1:
 ^{129}Xe - 1Vol%
 N_2 - 10Vol%.
 He - 89Vol% (balance)
 - Mixture 2:
 ^{129}Xe - 3Vol%
 N_2 - 10Vol%.
 He - 87Vol% (balance)
 - For other compositions, please contact us.*
- Enrichment ^{129}Xe > 90at%
- Purity All mixtures > 99.99%
- Volume Available in
7,000 liter or 3,000 liter
gas cylinder (with
CGA 580 valve)

Impurities in vppm

CO	≤ 1
CO ₂	≤ 1
H ₂ O	≤ 1
O ₂	≤ 1
THC	≤ 1
CF ₄	≤ 1

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