

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 ¹²⁹Xe in the form of gas

mixture is available with different compositions.

• Composition Pure Xenon (Xe-129

enriched)

Standard mixture:

¹²⁹Xe - 1Vol%

N₂ - 10Vol%.

He - 89Vol% (balance)

For other compositions,

please contact us.

• Enrichment 129Xe > 90at% or

¹²⁹Xe > 80at%

• Purity All mixtures > 99.9%

Volume Mixtures are available in

7,000 liter gas cylinder

(with CGA 580 valve)

Pure Xenon is available from a volume of 50 L

Impurities in vppm

CO	≤ 1
CO ₂	≤ 1
H ₂ O	≤ 1
O ₂	≤ 1
THC	≤ 1
CF₄	≤ 1