



¹²⁹Xe Xenon

Description

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

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

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

Impurities in ?g/g

| | |
|------------------|---|
| CO | 1 |
| CO ₂ | 1 |
| H ₂ O | 1 |
| O ₂ | 1 |
| THC | 1 |
| CF ₄ | 1 |

Physical and Chemical Properties:

| | |
|------------------------------|--|
| Material | 129Xe in the form of gas mixture is available with two different compositions. |
| Pure Xenon (Xe-129 enriched) | Standard mixture: 129Xe – 1Vol% N ₂ – 10Vol%. He – 89Vol% (balance) |
| Enrichment | 129Xe > 90at% ; 129Xe > 80at% |
| Purity | All mixtures > 99.9% |
| Volume | Available in 7,000 liter gas cylinder (with CGA 580 valve) |