^{17}O for magnetic resonance imaging (MRI) and scientific applications

Nuclear magnetic resonance (NMR) technology is accelerating a revolution in medical imaging.

NMR technology based on Oxygen-17 uses the magnetic properties of atomic nuclei that occur naturally in the body.

Oxygen-17 (^{17}O) is now used for diagnostic applications and medical research to create a new generation of NMR Images.

New developments with ^{17}O enrich the quality of information about living tissue to enhance the practice of medicine in the fields of cardiology and neurology among others.

Specification for ^{17}O in form of water

- Material: ^{17}O – Oxygen 17 in form of water with different enrichments
- Isotopic content: ^{17}O - 10 at%; ^{17}O - 20 at%; ^{17}O - 40 at%; ^{17}O - 50 at%; ^{17}O - 70 at%; ^{17}O - 90 at%
- Purity: > 99.9 wt%

Specification for ^{17}O in form of gas

- Material: ^{17}O – Oxygen 17 in form of gas
- Isotopic content: ^{17}O - 70 at%
- Purity: > 99.9 wt%

Impurities in vol. ppm

CO	<	10
CO_2	<	100
H_2	<	50
N_2	<	500

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