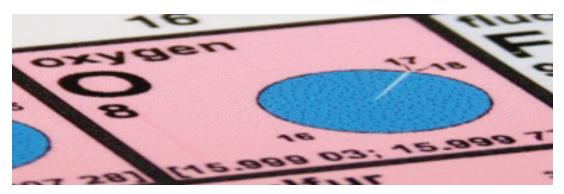


Oxygen-18, $^{18}O_2$.



 $^{18}O_2$ is often used as a cyclotron target in the production of the radioisotope ^{18}F . ^{18}F derivatives have clinical uses in positron emission tomography (PET). $^{18}O_2$ also has applications as a tracer molecule in material science and in plant biology.

Physical and Chemical Properties

Chemical Purity	≥99.9%
Isotopic Enrichment	≥97%
Natural Abundance	0.2%
Atomic Number	8
Mass Number	18
Neutron Number	10
Atomic Mass	17.9991610(7)
Spin	+0

Maximum Impurities

COMPONENT	CONCENTRATION (%)
Nitrogen	≤250ppm
Hydrogen	 ≤50ppm
Water	≤5ppm

A large variety of cylinder sizes and valve options are available. Please inquire about specific packaging needs.

U.S. Shipping information

The following information is for U.S. domestic shipments only.

Proper shipping name	Oxygen
CAS#	7782-44-7
Hazard class number and description:	2.2 (Non-Flammable Gas)
UN identification number	UN 1072
DOT label(s) required	Oxidizer

Linde Electronics and Specialty Gases

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