

Title: Is the solar system nitrogen

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The relative proportion of the two isotopes of nitrogen, ^{14}N and ^{15}N , varies dramatically across the Solar System, despite little variation on Earth.

OverviewHistoryPropertiesChemistry and compoundsOccurrenceProductionApplicationsSafetyNitrogen is a chemical element; it has symbol N and atomic number 7. Nitrogen is a nonmetal and the lightest member of group 15 of the periodic table, often called the pnictogens. It is a common element in the universe, estimated at seventh in total abundance in the Milky Way and the Solar System. At standard temperature and pressure, two atoms of the element bond to form N_2 , a colourless and odo...

In the interest of some degree of practicality, it seems to make sense to constrain the discussion to nitrogen that might be found within our solar system... maybe even especially ...

Nitrogen-dominated atmospheres are rare in the Solar System, appearing only on Earth and Titan, while other planets and moons are ...

This pie graph shoes that across our solar system, Earth, Titan and Pluto have the largest percentage of nitrogen. In each case, the source of the nitrogen is from similar physical ...

Various isotope fractionation processes have been invoked to explain the hydrogen and ^{15}N nitrogen isotope co-variations recorded by the different solar system objects and reservoirs.

The total N isotope range within the Solar System (blue shading), defined by the most ^{15}N -rich hotspot in the Isheyevo meteorite²⁴ (red diamond) and the PSN (yellow circle) composition³¹, ...

We propose that a rare, very light nitrogen component (called LPN) is admixed in varying amounts to planetary matter.

High-resolution molecular-spectroscopic observations and theoretical modeling will shed light on the

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existence of, and possible isotopic fractionation mechanisms within, ...

Within our own solar system, nitrogen is a significant component of many planetary atmospheres. Earth's atmosphere is composed of approximately 78% nitrogen gas ...

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