

## ContainerPower Energy Solutions

# Is the solar system nitrogen



## Overview

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Nitrogen is a ; it has N and 7. Nitrogen is a and the lightest member of of the , often called the . It is a common element in the , estimated at in the and the . At , two atoms of the element to form N<sub>2</sub>, a colourless and odo.

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New research by Rice University shows that Earth's nitrogen came from both inner and outer regions of the disk that formed our solar system, contrary to earlier theory. NASA/JPL-Caltech Scientists have long held that many of the important compounds and elements that make life possible on Earth.

Figure 1 | Nitrogen isotope variation in molecular clouds from our galaxy as a function of distance from the galactic centre. Isotope compositions are given in both absolute <sup>14</sup>N/<sup>15</sup>N ratios and δ<sup>15</sup>N values (deviation from the atmospheric <sup>15</sup>N/<sup>14</sup>N ratio). The observed correlation (dashed line) appears.

Nitrogen has two stable isotopes, nitrogen-14 and -15. The abundance ratios of the two isotopes among geological samples, both extraterrestrial and terrestrial, exhibit wide variations, despite the first-order expectation of its stable nature. This expectation derives from the absence of important.

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