

ORTHOSILICIC

Meaning: Orthosilicic refers to a form of silicic acid ($\text{Si}(\text{OH})_4$) that is soluble in water and is important for biological processes, particularly in the growth of organisms like diatoms in aquatic environments.

1. Orthosilicic acid plays a crucial role in the biogeochemical cycling of silicon in aquatic ecosystems.
2. Researchers are investigating the effects of orthosilicic acid on diatom growth and productivity.
3. The availability of orthosilicic acid in soil can significantly influence plant nutrient uptake.
4. Orthosilicic solutions are often used in various industrial applications, including glass and ceramics manufacturing.
5. Understanding the behavior of orthosilicic acid in different environments is essential for improving water quality management.

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