

VANADATE

Meaning: Vanadate is a chemical compound containing the vanadate ion (VO_4^{3-}), often used in various scientific applications, including catalysis and enhancing the efficiency of solar cells.

1. The chemist prepared a vanadate solution for his experiment on catalytic reactions.
2. Researchers discovered that vanadate compounds could enhance the efficiency of solar cells.
3. In geology, vanadate minerals are significant for understanding the formation of certain ore deposits.
4. The addition of vanadate to the reaction mixture resulted in a noticeable change in color.
5. Vanadate ions are known to mimic phosphate in biological systems, affecting enzyme activity.

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