

A New Method of Preparing Sodium Nitrotetrazolate

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Categories:

- Chemistry and Chemical Analysis
- Materials and Manufacturing

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- Chemical Engineering
- chemical reaction
- Chemical Synthesis
- Chemistry and Chemical Analysis
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- Materials Science

Researchers at Purdue University have developed a new method for preparing sodium nitrotetrazolate (NaNT) for energetic materials applications. Current synthetic methods produce impurities and use of environmentally harmful solvents. Purdue researchers have developed a synthetic procedure to produce sodium nitrotetrazolate with higher stability and high purity in up to 80% yield in a more sustainable route. Purity has been verified with high-performance liquid chromatography.

Advantages

- High-Purity
- Chemical Stability
- High-Efficiency NaNT Synthesis

Potential Applications

- Military and Defense
- Commercial Construction

Recent Publication:

Preparation of High Purity Sodium 5-Nitrotetrazolate (NaNT): An Essential Precursor to the Environmentally Acceptable Primary Explosive, DBX-1
Journal of Inorganic and General Chemistry
Zeitschrift für anorganische und allgemeine Chemie
DOI: 10.1002/zaac.201300010

People:

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Intellectual Property:

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