

## A New Method of Preparing Sodium Nitrotetrazolate

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**Categories:**

- Chemistry and Chemical Analysis
- Materials and Manufacturing

**Keywords:**

- Chemical Engineering
- chemical reaction
- Chemical Synthesis
- Chemistry and Chemical Analysis
- Materials and Manufacturing
- 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:**

- Piercey, Davin Glenn (Project leader)

- Manship, Timothy D
- Smith, Dawson Michael

**Intellectual Property:**

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**Contact OTC:**

Purdue Office of Technology Commercialization  
The Convergence Center  
101 Foundry Drive, Suite 2500  
West Lafayette, IN 47906

Phone: (765) 588-3475  
Fax: (765) 463-3486  
Email: [otcip@prf.org](mailto:otcip@prf.org)