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A New Method of Preparing Sodium Nitrotetrazolate

A cleaner, high-yield route produces stable NaNT for explosives without harmful solvents.

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 fur anorganische und allgemeine Chemie

DOI: 10.1002/zaac.201300010

TRL: 3

Technology ID
2020-PIER-69115

Category
Chemicals & Advanced Materials/Green & Bio-Based Chemistry
Aerospace & National Security/Defense, Electronics, & Surveillance Technologies

Authors
Timothy D Manship
Davin Glenn Piercey
Dawson Smith

Further information
Will Buchanan
wdbuchanan@prf.org

Jacob Brejcha
jjbrejcha@prf.org

View online

Intellectual Property:

Provisional-Gov. Funding, 2020-06-16, United States | Utility-Gov. Funding, 2021-04-05, United States