



Article

Energetic Polymer Possessing Furazan, 1,2,3-Triazole, and Nitramine Subunits

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Abstract: A [3 + 2] cycloaddition reaction using dialkyne and diazide comonomers, both bearing explosophoric groups, to synthesize energetic polymers containing furazan and 1,2,3-triazole ring as well as nitramine group in the polymer chain have been described. The developed solvent- and catalyst-free approach is methodologically simple and effective, the comonomers used are easily available, and the resulting polymer does not need any purification. All this makes it a promising tool for the synthesis of energetic polymers. The protocol was utilized to generate multigram quantities of the target polymer, which has been comprehensively investigated. The resulting polymer was fully characterized by spectral and physico-chemical methods. Compatibility with energetic plasticizers, thermochemical characteristics, and combustion features indicate the prospects of this polymer as a binder base for energetic materials. The polymer of this study surpasses the benchmark energetic polymer, nitrocellulose (NC), in a number of properties.

Keywords: diazide; nitramine; dialkyne; energetic polymer; energetic plasticizer; synthesis; thermal decomposition; combustion; burning rate



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1. Introduction

The need to improve efforts to synthesize components of energetic materials is obvious since the requirements for such materials that are promising for future use are increasing from year to year. Explosives, propellants, and powders are usually multicomponent energetic materials. For instance, a multicomponent system of solid composite propellants (SCPs) usually includes an oxidizer (50–80%, oxygen-rich inorganic and/or organic compounds), combustible (up to 25%, high-calorific metals or their alloys, metal hydrides, boron and its derivatives, high nitrogen compounds, etc.), binder (10–25%, plasticized polymers), catalysts, and processing aids [1–7]. All these components, complementing each other, should provide the required effect—the development of the maximum thrust and the maximum increase in the speed of the aircraft in the process of propellant burning, ensuring the delivery of the certain mass to the maximum possible distance. The extraordinary promise of SCPs for space, military, and civilian applications have led to a rapid growth of innovative research in this area.

The improvement of binder components for powders and SCP is an important area of research. Back in the 1970s, it was shown that higher propellant efficiency indicators can be achieved if active oxygen is delivered not only by an oxidizer, but also contained in a binder, in a polymer, or plasticizer of which, for example, bears nitroxy groups [8–10]. The

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