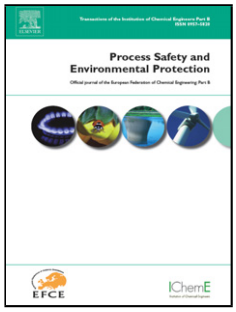
# Accepted Manuscript




Title: New and reliable model for prediction of autoignition temperature of organic compounds containing energetic groups

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# New and reliable model for prediction of autoignition temperature of organic compounds containing energetic groups

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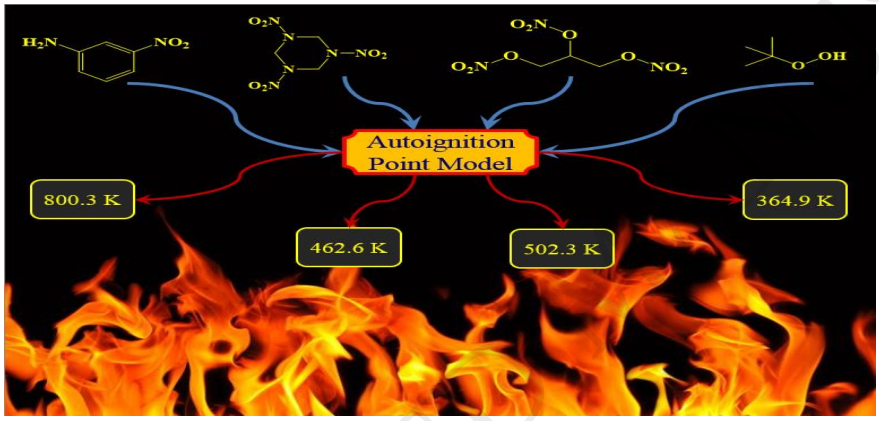
Graphical abstract




Highlights

- A novel method is introduced for reliable prediction of autoignition temperature (*AIT*) of organic compounds containing energetic groups.
- It requires only molecular structure of the compound.
- There is no need to use computer codes and unusual descriptors.
- It gives much reliable predictions as compared to the best available method.

## Abstract

Autoignition temperature (*AIT*) is one of the most important safety specifications used to characterize the hazard potentials of a chemical substance. A simple model is introduced