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Bis(dinitropyrazolyl)methanes as Stable High Energy Materials

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Abstract

The development of high energy materials (HEMs) with both high explosive performance and decreased sensitivity is a main theme of current research for energetic materials. Polynitroazoles are good building blocks for new energetic materials because of their stable chemical properties. Two new bis(dinitropyrazolyl)methanes as potential insensitive HEMs were prepared via either the coupling of dinitropyrazole or the nitration of bis(mononitropyrazolyl)methane. Their insensitive properties are also reported and compared to those of RDX (trinitrohexahydro-1,3,5-triazine) and HNIW (CL-20, hexanitrohexaazaisowurtzitane).

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- Marc F. B  lter, Thomas M. Klap  tke, Tessa Kustermann, Tobias Lenz and J  rg Stierstorfer | Improving the Energetic Properties of Dinitropyrazoles by Utilization of Current Concepts, *European Journal of Inorganic Chemistry*, **2018**, 37, (4125-4132), (2018).
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if(window._satellite) { _satellite.pageBottom(); }
```

```
var _prum=[[['id','59e8fecb3847311aab7b23c6'],['mark','firstbyte',(new
```

```
Date()).getTime()]];(function(){var s=document.getElementsByTagName('script')[0],p=document.createElement('script');p.async='async';p.src='//rum-static.pingdom.net/prum.min.js';s.parentNode.insertBefore(p,s);})();
```