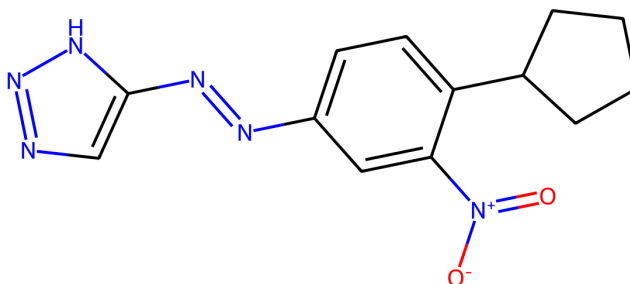


Thermal Hazard Assessment Memo

TestMol



Molecule Properties

SMILES: O=[N+]([O-])c1cc(/N=N/c2cnn[nH]2)ccc1C1CCCC1

Formula: 13C, 14H, 6N, 2O

MW: 286.30 g mol⁻¹

mp: 111.0 to 113.0 °C

Results

High Energy Groups: (3) N1C=CN=N1 |c:1,3|, CN=NC, C[N+](=O)[O-]

Explosive Groups: (3) CN=NC, N1C=CN=N1 |c:1,3|, C[N+](=O)[O-]

Rule of Six = 5

Oxygen Balance = -173.25

Q_{DSC} = 300.0 J g⁻¹

T_{onset} = 330.0 °C

T_{init} = 440.0 °C

Impact Sensitivity = -0.47

Explosive Propagation = -0.52

T_{D24} = 262.0 °C

O.R.E.O.S. assessment of risk by scale:

<5 g	5 to 100 g	100 to 500 g	>500 g
Medium Hazard	Medium Hazard	Medium Hazard	High Hazard

Interpretation

These results have been calculated using X¹ and they show Y².

This memo may contain confidential information.

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[1]: *Org. Proc. Res. Dev.*, 2011, 2341-2356

[2]: *Org. Proc. Res. Dev.*, 2011, 2117-2119

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