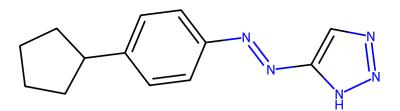
Thermal Hazard Assessment Memo

TestMol



Properties:

SMILES: c1cc(C2CCC2)ccc1/N=N/c1cnn[nH]1

Name: TestMol

Formula: 13C, 15H, 5N

mp: 80 to 89 °C

Results:

High Energy Groups = 2 N1C=CN=N1 |c:1,3|, CN=NC

Explosive Groups = 2 CN=NC, N1C=CN=N1 |c:1,3|

Rule of Six = -1 Oxygen Balance = -222.13

 $Q_{DSC} = 990.00 \text{ J g}^{-1}$ $T_{onset} = 91.00 \text{ °C}$ $T_{init} = 112.00 \text{ °C}$

Impact Sensitivity = 0.41 Explosive Propagation = 0.19 T_{D24} = 32.4 °C

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

Interpretation:

The Rule of Six¹ value imples (Not Explosive). The Oxygen Balance¹ suggests (Medium Risk). The Pfizer method was used to calculate Impact Sensitivity and Explosive Propagation values, these suggest (Impact Sensitive) and (Propagates).

The $T_{\rm D24}$ result gives the maximum safe operation temperature.