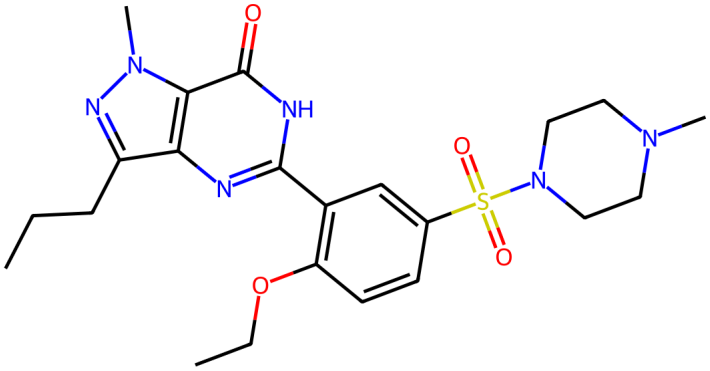
Thermal Hazard Assessment Memo

Sildenafil very very very very very very long name



Properties:

SMILES: CCCC1=NN(C2=C1N=C(NC2=O)C3=C(C=CC(=C3)S(=O)(=O)N4CCN(CC4)C)OCC)C

Name: Sildenafil very very very very very very long name

Formula: 22C, 30H, 6N, 4O, S

mp: None to None

Results:

High Energy Groups = 0

Explosive Groups = 0

Rule of Six = -22	Oxygen Balance = -185.42	
Q_{DSC} = 770.26 J g□¹	T_{onset} = 90.14 °C	T_{init} = 74.62 °C
Impact Sensitivity = 0.31	Explosive Propagation = 0.08	T_{D24} = 6.2 °C

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

Interpretation:

The Rule of Six[1] value imples (Not Explosive). The Oxygen Balance[1] suggests (Medium Risk)
The Pfizer method was used to calculate Impact Sensitivity and Explosive Propagation values, these suggest (Impact Sensitive) and (Propagates).
The T_{D24} result gives the maximum safe operation temperature.

[1] Org. Proc. Res. Dev., 2011, 2341-2356
[2] Org. Proc. Res. Dev., 2021, 2117-2119