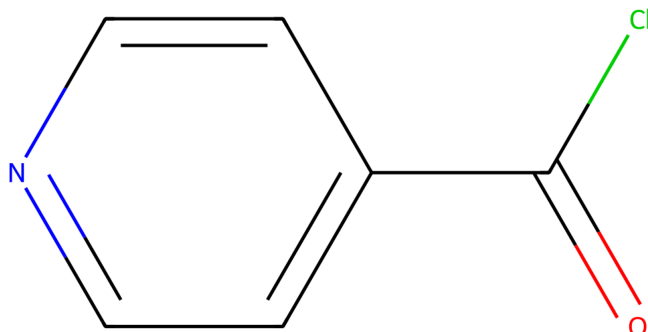


Thermal Hazard Assessment Memo



Properties:

SMILES: O=C(Cl)c1ccncc1

Name:

Formula: 6C, 4H, Cl, N, O

mp: to None

Results:

High Energy Groups = 0

Explosive Groups = 0

Rule of Six = -6

Oxygen Balance = -146.94

$Q_{DSC} = 550.00 \text{ J g}^{-1}$

$T_{onset} = 660.00 \text{ }^{\circ}\text{C}$

$T_{init} = 700.00 \text{ }^{\circ}\text{C}$

Impact Sensitivity = -0.37

Explosive Propagation = -0.35

$T_{D24} = 444.0 \text{ }^{\circ}\text{C}$

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

Interpretation:

The Rule of Six¹ value implies **(Not Explosive)**. The Oxygen Balance¹ suggests **(Medium Risk)**.

The Pfizer method was used to calculate Impact Sensitivity and Explosive Propagation values, these suggest **(Not Impact Sensitive)** and **(Should Not Propagate)**.

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