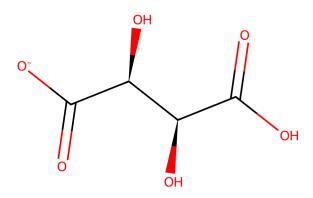
Thermal Hazard Assessment Memo

Tartaric Acid



Properties:

SMILES: O=C([O-])[C@@H](O)[C@H](O)C(=O)O

Name: Tartaric Acid Formula: 4C, 5H, 6O

mp: to °C

Results:

High Energy Groups = 0
Explosive Groups = 0

Rule of Six = -4 Oxygen Balance = -48.30

 $egin{array}{lll} {\bf Q}_{
m DSC} & {\bf T}_{
m onset} & {\bf T}_{
m init} \\ {\bf Impact Sensitivity} & {\bf Explosive Propagation} & {\bf T}_{
m D24} \\ \end{array}$

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

Interpretation:

The Rule of Six¹ value imples (Not Explosive). The Oxygen Balance¹ suggests (High Risk). The Pfizer method² was used to calculate Impact Sensitivity and Explosive Propagation values, these suggest None and None.

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

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