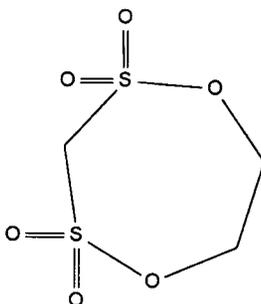


CYCLODISONE

NSC - 348948



Chemical Name:

1,5,2,4-Dioxadithiepane, 2,2,4,4-tetraoxide

Other Names: Cyclic-SOSO

CAS Registry Number: 99591-73-8

Molecular Formula: C₃H₆O₆S₂

M.W.: 202.2

Approximate Solubility:

(mg/mL)

Water	< 1
Acetate buffer, pH 4	< 1
Carbonate buffer, pH 9	< 1
0.1 N HCl	< 1
0.1 N NaOH	10-13
Ethanol (95%)	< 1
Acetone	> 100
CH ₃ CN	> 100
CHCl ₃	< 1
DMSO	> 100
DMF	> 100

Stability:**Bulk:**

Cyclodisone stored for 90 days at room temperature and at 50 °C under both dark and light conditions was stable (HPLC). Samples stored at 50 °C turned a light tan color.

Solution:

180 mg of Cyclodisone was dissolved in 60 mL of DMSO/water (50/50, v/v). Aliquots of this solution (5 mL) were diluted to 10 mL with internal standard solution (5 mL, phenol 1.8 mg/mL in CH₃CN/water, 20/80, v/v) and the concentration was determined over a 4 hour period using the HPLC system described below. The t₉₀ was 320 min.

High Performance Liquid Chromatography:

Column:	Altech Ultrasphere ODS, 5μ, 250 x 4.6 mm i.d.
Mobile Phase:	CH ₃ CN/water (20/80,v/v)
Flow Rate:	1.0 mL/min
Detection:	Refractive index
Sample Preparation:	1.7 mg/mL in CH ₃ CN/H ₂ O (20/80,v/v)
Internal Standard:	Phenol, 1.8 mg/mL
Retention Volume:	7.5 mL (NSC 348948) 12.5 mL (I.S.)