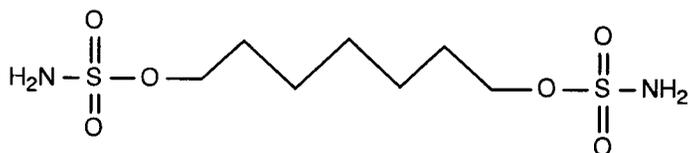


HEPSULFAM

NSC - 329680



Chemical Name:

Sulfamic acid, 1,7-heptanediyl ester

CAS Registry Number: 96892-57-8

Molecular Formula: C₇H₁₈N₂O₆S₂

MW.: 290.4

Approximate Solubility:

(mg/mL)

Water	3.6 - 2.7
Buffer, pH 4	5.0 - 3.3
Buffer, pH 9	5.6 - 3.7
Ethanol	> 10.6
Dimethylacetamide	> 10.0
DMSO	> 11.2

Chloroform	< 0.7
Ethyl acetate	> 9.9
t-Butanol	> 10.0

Stability:

Bulk:

Test samples exposed to room temperature (25 °C) for three months shows very little degradation. Test samples stored at 50 °C in the dark showed significantly greater loss ($\approx 10\%$).

Solution:

A test sample of 25 mg/mL in 30% DMSO/water showed no significant degradation when stored for 48 hr.

High Performance Liquid Chromatography:

Column: RCM-100, 10 μm C₁₈, 100 x 8 mm
(Waters Assoc.)

Mobile Phase: 30% acetonitrile/water (v/v)

Flow Rate: 1.4 mL/min

Detection: Waters Model R401 Differential Refractometer

Sample Preparation: ≈ 24 mg/mL in mobile phase

Internal Standard: ≈ 12.3 mg/mL acetophenone in mobile phase

Retention Volume: 6.1 mL (NSC 329680)
11.8 mL (I.S.)