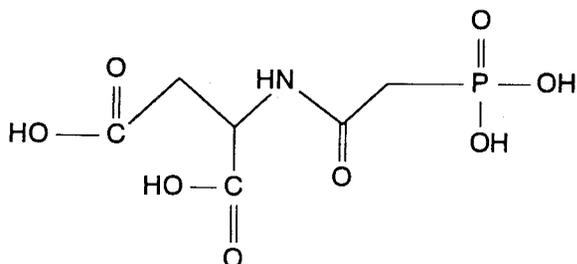


**PALA**

**NSC - 224131**



\*2Na

**Chemical Name:**

*N*-(Phosphonoacetyl)-*L*-aspartic acid, disodium salt

**Other Names:**

*N*-Phosphonoacetyl-*L*-Aspartate Disodium; Sparfosate Sodium (USAN)

**CAS Registry Number:** 60342-56-5

**Molecular Formula:** C<sub>6</sub>H<sub>8</sub>NO<sub>8</sub>P·2Na

**M.W.:** 299.1

**Approximate Solubility:**

(mg/mL)

Water

> 950

## Stability:

### Bulk:

The compound is very stable as the bulk drug. The bulk material is hygroscopic; protect from moisture when storing.

### Solution:

The compound is very stable in aqueous solution (qualitative). PALA (1mg/mL) is chemically stable for at least 2 weeks at room temperature in aqueous solution.

## High Performance Liquid Chromatography:

<b>Column:</b>	Partisil PXS 10/25 SAX, 250 mm x 4.6 mm i.d.
<b>Mobile Phase:</b>	0.30 M $\text{KH}_2\text{PO}_4$ , adjusted to pH 4.0 with $\text{H}_3\text{PO}_4$
<b>Flow Rate:</b>	2.0 mL/min
<b>Detection:</b>	UV at 210 nm
<b>Sample Preparation:</b>	2 mg/mL in water or internal standard solution
<b>Internal Standard:</b>	1-naphthol-4-sulfonic acid, Na salt (2 mg/50mL of water)
<b>Retention Volume:</b>	10.8 mL (NSC-224131)

## Optical Rotation:

(c = 1,  $\text{H}_2\text{O}$ )

$$[\alpha]_D^{20} = +14.2 \pm 2^\circ$$