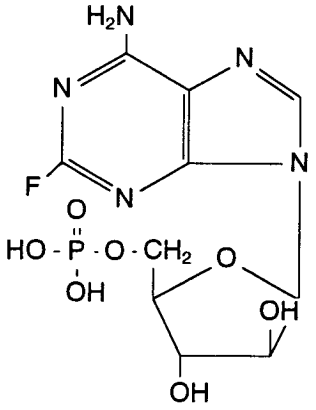
# FLUDARABINE PHOSPHATE

## NSC - 312887




**Chemical Name:**
2-Fluoro-9-(5-*O*-phosphono-β-*D-arabino*-furanosyl)-9*H*-purin-6-amine

**Other Names:**
2-F-ARA AMP; 2-Fluoroadenine arabinoside-5′-phosphate; Fludara®

**CAS Registry Number:** 75607-67-9

**Molecular Formula:** $C_{10}H_{13}FN_5O_7P$ **M.W.:** 365.2

**Approximate Solubility:** (mg/mL)

| | |
|---|---|
| Water | 9.2 |
| pH 4 buffer | 27.6 |
| pH 9 buffer | 57 |

**Stability:**

**Bulk:**
Based on HPLC analysis, the sample is stable for at least one month when stored as the bulk chemical at room temperature and 60 °C.

**Solution:**
A 2 mg/mL aqueous solution is stable for at least 48 hours at room temperature and laboratory illumination (HPLC).

**Ultraviolet Absorption:**

(0.1 N HCl)

$\lambda_{max}$ = 262 ± 2 nm  $\varepsilon$ = 12,600 -13,400

**High Performance Liquid Chromatography:**

| | |
|---|---|
| **Column:** | Alltech ODS, 250 x 4.6 mm i.d. |
| **Mobile Phase:** | 5% MeOH in 0.1 M $KH_2PO_4$ buffer, pH 4 |
| **Flow Rate:** | 1.5 mL/min |
| **Detection:** | UV at 254 nm |
| **Sample Preparation:** | 0.2 mg/mL in internal standard solution |
| **Internal Standard:** | 0.3 mg thymidine/mL water |
| **Retention Volume:** | 13.0 mL (NSC-312887) |

19.5 mL (I.S.)

**Optical Rotation:**

(c = 0.5, $H_2O$) $[\alpha]_D^{21} = 12 \pm 2°$

**Toxicity Data:**

Mouse(iv): $LD_{50}$: 1236 mg/kg
National Technical Information Service, PB83-195685