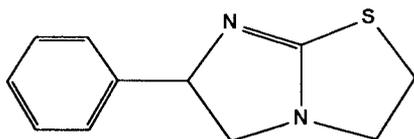


# LEVAMISOLE

NSC - 177023



\* HCl

## Chemical Name:

2,3,5,6-Tetrahydro-6-phenylimidazo[2,1-*b*]thiazole, (*S*)-, hydrochloride

## Other Names:

Tetramisole; Tetramizole

**CAS Registry Number:** 16595-80-5

**Molecular Formula:** C<sub>11</sub>H<sub>12</sub>N<sub>2</sub>S·HCl

**M.W.:**241.0

## Approximate Solubility:

(mg/mL)

Water	210
Methanol	sol.
Propylene glycol	sol.
Ethanol	sl. sol.

**Stability:****Bulk:**

Levamisole appears to be stable in the bulk form at 60 °C for at least four weeks.

**Solution:**

At 100 mg/mL concentrations in water and pH 7 buffer, the compound is stable for at least 9 days when stored at ambient temperature under normal laboratory illumination.

**Ultraviolet Absorption:**

(0.1N HCl)

$\lambda_{\max}$

$\epsilon$

213 ± 2 nm

20100 ± 200

**High Performance Liquid Chromatography:**

**Column:** IBM C<sub>8</sub>, 150 x 4 mm i.d., 5µm, end capped

**Mobile Phase:** Methanol/0.1 M, pH 7, KH<sub>2</sub>PO<sub>4</sub> (1/1)

**Flow Rate:** 1.5 mL/min

**Detection:** 254 nm

**Sample Preparation:**  $\approx 0.5$  mg is accurately weighed and then dissolved in 1.00 mL of water with the aid of brief sonication, interspersed with vigorous mixing. 0.05 mL of the internal solution is then added and mixed.

**Internal Standard:** 1.7 mg of *m*-nitroaniline in 25 mL of methanol

**Retention Volume:** 11.2 mL (NSC 177023)  
4.5 mL (I.S.)

**Optical Rotation:**

( $c = 1$ , H<sub>2</sub>O)

$$[\alpha]_D^{21} = -126.2 \pm 1.4^\circ$$