

## Iodonitrotetrazolium chloride

Cat. No. CSUB-0317

Lot. No. (See product label)

### Introduction

#### Applications

Electron acceptor for the colorimetric assay of various dehydrogenases. Iodonitrotetrazolium (INT) is a tetrazolium dye precursor that forms a purple formazan dye on reduction and has been used in a variety of applications. It is considered to have higher reactivity than some tetrazolium compounds, at least with respect to succinate dehydrogenase, with optimal results obtained using a concentration of 0.8 mM INT. INT is used as an electron acceptor for the colorimetric assays of: lactate dehydrogenase, xanthine dehydrogenase, lactyl-CoA dehydrogenase, succinate dehydrogenase, BBM II ketolisomerase, histidinol dehydrogenase and diverse other hydrolases.

#### Synonyms

2-(4-Iodophenyl)-3-(4-nitrophenyl)-5-phenyl-2H-tetrazolium chloride; p-Iodonitrotetrazolium Violet; INT

### Product Information

**EC Number** 205-676-2

**CAS No.** 146-68-9

**Molecular Formula** C<sub>19</sub>H<sub>13</sub>ClIN<sub>5</sub>O<sub>2</sub>

**Molecular Weight** 505.70

**Solubility** methanol: water (1:1): soluble 50 mg/mL, very faintly turbid, very deep yellow (hot)

**mp** 240 °C (dec.) (lit.)

**Substrates** Histidinol Dehydrogenase