

## o-Phenylenediamine

Cat. No. CSUB-0413

Lot. No. (See product label)

### Introduction

**Applications** o-Phenylenediamine Free Base is a peroxidase substrate suitable for use in ELISA procedures. The substrate produces a soluble end product that is orange-brown in color and can be read spectrophotometrically at 450 nm. The OPD reaction may be stopped with 3 N HCl or 3 M H<sub>2</sub>SO<sub>4</sub> and read at 492 nm.

**Synonyms** 1, 2-Diaminobenzene; 1, 2-Phenylenediamine; OPD

### Product Information

**Form** powder

**EC Number** 202-430-6

**CAS No.** 95-54-5

**Molecular Formula** C<sub>6</sub>H<sub>8</sub>N<sub>2</sub>

**Molecular Weight** 108.14

**Impurities** λ<sub>ex</sub> 337 nm; λ<sub>em</sub> 417 nm (Pyruvic acid derivative)

**Vapor pressure** 0.01 mmHg ( 25 °C)

**mp** 98-102 °C

**bp** 256-258 °C

**Substrates** Peroxidase Substrates

**Vapor Density** 3.7 (vs air)

### Storage and Shipping Information

**Storage** 2-8°C