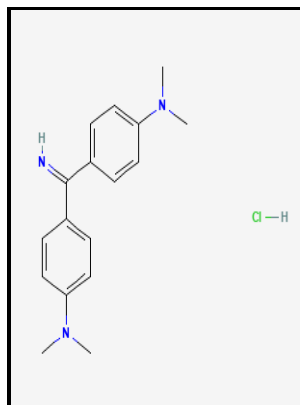


# Precautions for laboratory workers who handle carcinogenic aromatic amines.

**Chester Beatty Research Institute - A rapid and simple method for the specific estimation of glucose in blood**



Description: -

-Precautions for laboratory workers who handle carcinogenic aromatic amines.

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Notes: Adapted from recommendations of the Association of British Chemical Manufacturers.

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Hundreds of different systemic toxic effects of chemicals are known. Formaldehyde is an example of a reactive, highly water-soluble vapor for which the nose is a major site of deposition.

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Restrict the use of pure compounds and concentrated standards to regulated areas.

## **Sampling and Analytical Methods: Benzidine/3,3'**

S Department of Labor, Occupational Safety and Health Administration, OSHA Instruction CPL 2-2. The higher the vapor pressure, the greater the potential concentration of the chemical in the air. The precision of the analytical method for each analyte is given in Tables 4.

## **Sampling and Analytical Methods: Benzidine/3,3'**

Restrict use of pure compounds and concentrated standards to regulated areas. Ship and store samples for 3,3'-dichlorobenzidine under reduced temperatures.

## **Sampling and Analytical Methods: Benzidine/3,3'**

Discussion has also taken place concerning the possibility of aromatic amines having health effects either when they exist as impurities in a finished product, or when they may be restored as the result of a chemical reaction taking place during the use of a derivative, or-and this is a totally different case-as the

result of metabolic degradation within the organism of result of metabolic degradation within the organism of persons who may be absorbing more complex persons who may be absorbing more complex derivatives.

### **Safe handling of carcinogens**

Some compounds can pose either a reactive or a toxic hazard, depending on the conditions. This chapter provides a practical guide for the laboratory worker engaged in these activities. The samples were analyzed by a chemist unassociated with this evaluation.

### **Safety measures to be taken when moving to a new laboratory**

Flammable vapors from massive sources such as spills have been known to descend into stairwells and elevator shafts and ignite on a lower story. The limitations of the flammability range, however, provide little margin of safety from the practical point of view because, when a solvent is spilled in the presence of an energy source, the LEL is reached very quickly and a fire or explosion will ensue before the UEL can be reached.

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