

Product Data Sheet

Product Name: Diphenylamine

Cat. No.: GC43473

Chemical Properties

Cas. No. 122-39-4

SMILES C1(NC2=CC=CC=C2)=CC=CC=C1

Formula C₁₂H₁₁N

M.Wt 169.2

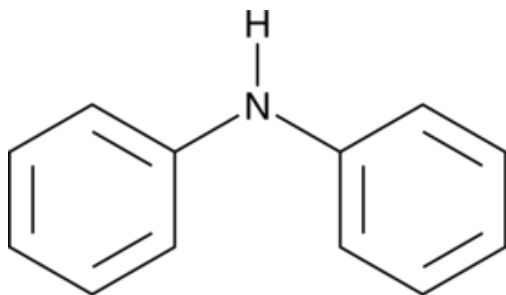
Solubility Chloroform: Slightly Soluble,
Methanol: Slightly Soluble

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Diphenylamine is an antioxidant that has been found in a variety of plants, including black and green tea plants, onion, and citrus. It inhibits the oxidation of α -farnesene in solution as well as in the coating of Granny Smith apples. Diphenylamine (1,000 ppm) prevents superficial scald in several varieties of apples when applied by dipping or wrapping post-harvest. It induces toxicity in the aquatic organisms *D. magna*, *P. phosphoreum*, and *V. fischeri* (EC₅₀s = 2.3, ~4.75, and ~5.5 mg/L, respectively). Diphenylamine has been used in colorimetric assays for the quantification of DNA. Formulations containing diphenylamine have been used to prevent deterioration of apple and pear crops post-harvest.

Caution: Product has not been fully validated for medical applications. For research use only.

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