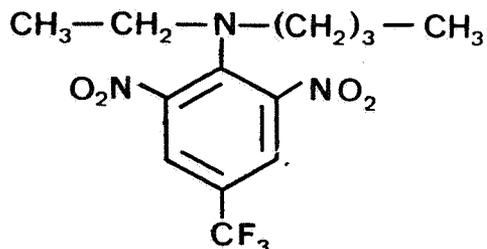


US EPA ARCHIVE DOCUMENT

102 Physical and Chemical Properties102.1 Chemical Name

N-Butyl-N-ethyl-a,a,a-trifluoro-2,6-dinitro-p-toluidine

102.2 Structural Formula102.3 Common Names, Trade Names

Benefin, Balan, Binnell

102.4 Molecular Weight

335.32

102.5 Physical State

Yellow orange crystals. Melts at 65 to 66.5 °C

102.6 Properties102.6.1 Solubility

Readily soluble in organic solvents such as acetone and xylene; lower solubility in solvents such as ethanol.

102.6.2 Octanol/Water Partition Coefficient

195,000

103 Behavior in the Environment103.1 Animal

Study of carbon-14 excretion in lactating goats fed carbon-14 ring labeled benefin. Benefin was excreted in the urine and feces (84 to 100% recovery) within 5 days of administration. Note that feeding level was only 1 ppm in the total diet (from EEB review by F. Betz, November 10, 1976).

104 Uses and Special Concerns

Benfin is a pre-emergence herbicide for use on lawns and golf courses. It is registered for use alone or in combination with the insecticide, chlorpyrifos.