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O-Toluidine

National Cancer Institute

Source

National Cancer Institute. *o-Toluidine*. NCI Thesaurus. Code C44429.

A synthetic, light sensitive, light yellow liquid that is slightly soluble in water and miscible with carbon tetrachloride, diethyl ether and ethanol. The hydrochloride is a synthetic, light sensitive, white crystalline powder that is soluble in dimethylsulfoxide and ethanol. o-Toluidine and o-toluidine hydrochloride are used primarily as intermediates in the manufacture of dyes and pigments. When heated to decomposition, o-toluidine emits toxic fumes of nitrogen oxides while the hydrochloride also produces hydrochloric acid. Four studies of workers exposed to o-toluidine reported an excess of bladder cancers. o-Toluidine and o-toluidine hydrochloride are reasonably anticipated to be human carcinogens. (NCI05)