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# 4-Nitropyrene

National Cancer Institute

## Source

National Cancer Institute. *4-Nitropyrene*. NCI Thesaurus. Code C44325.

A synthetic, orange needle-shaped solid that is that is practically insoluble in water and soluble in diethyl ether, acetone, ethanol, benzene and toluene. It is not used for any commercial applications and is used only for research purposes. When heated to decomposition, 4-nitropyrene emits toxic fumes of nitrogen oxides. 4-Nitropyrene is found in particulate emissions from combustion products, of which diesel exhaust is the principle source. The primary route of potential human exposure to 4-nitropyrene is inhalation. Low concentrations of 6-nitrochrysene have been found in ambient airborne particulates. It is reasonably anticipated to be a human carcinogen. (NCI05)