



LKT Laboratories, Inc.

## Mitotane

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### Product Information

Product ID M3576

CAS No. 53-19-0

Chemical Name

Synonym

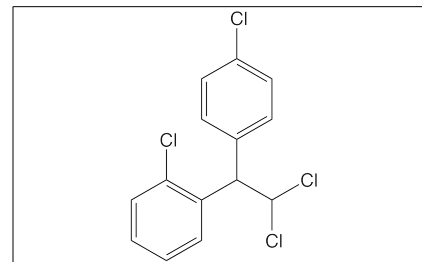
Formula  $C_{14}H_{10}Cl_4$

Formula Wt. 320.04

Melting Point 76-78C

Purity  $\geq 98\%$

Solubility



**Bulk quantities available upon request**

Product ID	Size
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M3576	100 mg
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M3576	500 mg
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M3576	1 g
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Store Temp Ambient

Ship Temp Ambient

**Description** Mitotane is an anticancer chemotherapeutic compound clinically used to treat adrenocortical carcinoma, as it targets only adrenal cells and not others. In adrenocortical cells, mitotane inhibits secretion of cortisol and 17-hydroxyprogesterone and decreases activity of cytochrome c oxidase, suppressing mitochondrial respiration and inhibiting cell proliferation. Mitotane may induce hyperlipidemia in clinical subjects, as it increases serum levels of LDL, HDL, and triglycerides.

**References** Shawa H, Deniz F, Bazerbashi H, et al. Mitotane-induced hyperlipidemia: a retrospective cohort study. *Int J Endocrinol.* 2013;2013:624962. PMID: 24348556.

Hescot S, Slama A, Lombès A, et al. Mitotane alters mitochondrial respiratory chain activity by inducing cytochrome c oxidase defect in human adrenocortical cells. *Endocr Relat Cancer.* 2013 May 21;20(3):371-81. PMID: 23696597.

Fang VS. Cytotoxic activity of 1-(o-chlorophenyl)-1-(p-chlorophenyl)-2,2-dichloroethane (mitotane) and its analogs on feminizing adrenal neoplastic cells in culture. *Cancer Res.* 1979 Jan;39(1):139-45. PMID: 761184.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.