


PRODUCT CODE- 3CHPHT954

 Taj Pharmaceuticals Ltd.
3-Chloroacetophenone
CAS No. 99-02-5



6459 3CHPHT954 51124061

3-Chloroacetophenone

IUPAC Name: 1-(3-chlorophenyl)ethanone

Synonyms:

3'-Chloroacetophenone, omega-Chloroacetophenone, CHLOROACETOPHENONE, Ambap7200, Acetophenone, 3'-chloro-, Ethanone, 1-(3-chlorophenyl)-, 1-(3-Chlorophenyl)ethanone, CCRIS 638, 288799_ALDRICH, 22845_FLUKA, EINECS 202-721-8, ZINC02039606, Ethanone, 1-phenyl-, monochloro deriv, Ethanone, 1-phenyl-, monochloro deriv., LS-67567, InChI=1/C8H7ClO/c1-6(10)7-3-2-4-8(9)5-7/h2-5H,1H, 99-02-5, 1341-24-8, 29731-15-5

CAS Registry Number: 99-02-5

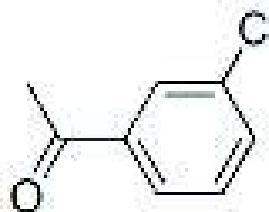
Molecular Formula: C₈H₇ClO

Molecular Weight: 154.593580 [g/mol]

Density 1.184

Boiling point 241 °C

Flash point 105 °C



Other chemicals were found as well: chlorodiphenyl (which can cause liver damage and irritate the eyes and skin), chloroacetophenone (tear gas), phosgene (a colorless gas that can cause weakness lasting weeks or months), hydrogen cyanide (a colorless gas with a slight almond-like odor that at low-level exposures can cause breathing difficulties, heart pains, vomiting, and headache), and trichloroarsine (which affects respiration and can cause cancer).

Phenacyl chloride is a substituted acetophenone. It is a useful building block in organic chemistry. Apart from that, it has been historically used as a riot control agent, where it is designated CN.

Preparation

Phenacyl chloride is readily available commercially. It may be synthesized by the Friedel-Crafts acylation of benzene using chloroacetyl chloride, with an aluminium chloride catalyst

Uses

* 3-Chloroacetophenone is primarily used as a riot-control agent (tear gas) and in Chemical Mace. (1-3,7)

* It is also used as a pharmaceutical intermediate and formerly as an alcohol denaturant.



Sources and Potential Exposure

* The use of tear gas and Chemical Mace to control riots and disable attackers causes direct exposure to 3-Chloroacetophenone through skin contact and inhalation.

Occupational exposure may occur during its manufacture and use by inhalation and dermal contact.

Assessing Personal Exposure

* No information was located regarding the measurement of personal exposure to 3-Chloroacetophenone.

Health Hazard Information

Acute Effects:

* 3-Chloroacetophenone is a potent eye, throat, and skin irritant. Acute inhalation exposure of humans causes burning of the eyes with lacrimation; some degree of blurred vision; possible corneal damage; irritation and burning of the nose, throat, and skin; burning in the chest with dyspnea; and laryngotracheobronchitis

Acute dermal exposure is irritating and can result in first, second, and third degree chemical burns in humans; these effects are exacerbated when the skin is wet. Acute animal tests in rats, mice, rabbits, and guinea pigs have demonstrated 3-Chloroacetophenone to have high acute toxicity from oral exposure.

This document plus the full buyer / prescribing information, prepared for health professionals can be found at:

<http://www.tajapi.com>

or by contacting the sponsor, Taj Pharmaceuticals Limited., at:
91 022 30601000.

This leaflet was prepared by
Taj Pharmaceuticals Limited,
Mumbai (India).

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