

## PRODUCT CODE- BZMKT6193

6193 BZMK154 058061152



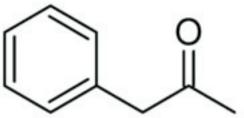
Benzyl methyl ketone

IUPAC Name: 1-phenylpropan-2-one

Synonyms:

Phenylacetone, Benzyl methyl ketone, Phenyl-2-propanone, 1-Phenylacetone, Methyl benzyl ketone, 1-Phenyl-2-propanone, phenyl acetone, 2-Propanone, 1-phenyl-, 3-Phenyl-2-propanone, Phenylmethyl methyl ketone, 1-phenylpropan-2-one, BENZYLMETHYL KETONE, DEA No. 8501, ghl.PD\_Mitscher\_leg0.660, NSC 9827, CHEBI:52052, EINECS 203-144-4, NSC9827, CPD-7233, ZINC01700205

CAS Registry Number: 103-79-7 Molecular Formula: C9H10O Molecular Weight: 134.175100 [g/mol]



HAZARDS IDENTIFICATIONEMERGENCY OVERVIEW

Potential Health Effects Eye: May cause eye irritation. Skin: May cause skin irritation. Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated. Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Chronic: No information found.

FIRSTAID MEASURES

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.



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Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid. Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Notes to Physician: FIRE FIGHTING MEASURES General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. ACCIDENTAL RELEASE MEASURES General Information: Use proper personal protective equipment as indicated Absorb spill with inert material (e.g. vermiculite, sand or earth),

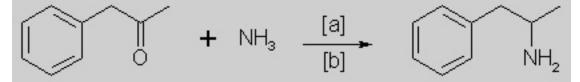
then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Scoop up with a nonsparking tool, then place into a suitable container for disposal.

## HANDLING and STORAGE Handling:

Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Storage:

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry place. Keep container closed when not in use.

The Reductive Amination of Benzyl Methyl Ketone Benzyl methyl ketone can react with ammonia in the following way:



in which [a]: Raney Nickel, Pt, H2, Al powder in the presence of HgCl2, Nickel plated Zinc; [b]: 20-170°C, 1-130 atm, ethanol, methanol.

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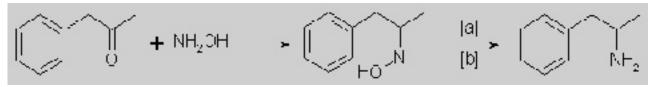
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Reaction conditions can differ widely. (Only low pressure and low temperature aminations have been encountered so far in the Netherlands.)

## The Oxime Route

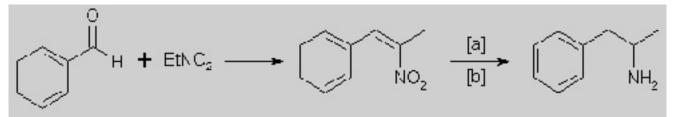
Benzyl methyl ketone reacts with hydroxylamine to give the oxime, which can be hydrogenated to give the amphetamine:



in which [a]: Na (amalgamated), Na (absolute ethanol), LiAlH4, or H2 and Raney Nickel, nickel, iron, nickel plated zinc; [b]: 20-170°C, 1-130 atm;

Electrolytical reduction has also been reported. Great differences have been described for the reaction conditions. The Phenylnitropropene Route

Condensation of benzaldehyde with nitroethane yields 1-phenyl-2-nitropropene. Hydrogenation of the double bond and subsequent reduction of the nitro group gives the amphetamine:



in which [a]: LiAlH4, H2 and Raney Nickel or Pd/C; [b]: 20-100°C, 1-80 atm, CH3OH, C2H5OH, H2O/HCOOH, C2H5OH.

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). **PRODUCT CODE- BZMKT6193** Last revised: 29 August 2009



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