

Section 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifiers

Product Name: Aconitine

Catalogue Number: A-150

Synonyms: Acetylbenzoylaconine

IUPAC Name: (1 α ,3 α ,6 α ,14 α ,15 α ,16 β)-20-Ethyl-1,6,16-trimethoxy-4-(methoxymethyl)aconitane-3,8,13,14,15-pentol 8-acetate 14-benzoate

EC Number: 206-121-7

—

1.2 Relevant identified uses of the substance or mixture and uses advised against

Laboratory chemicals, synthesis of substances. For research purposes only. Not for human or veterinary use.

1.3 Details of the supplier of the safety data sheet

Company: Alomone Labs	Telephone: +972-2-587-2202
Jerusalem BioPark (JBP)	Fax: +972-2-587-1101
PO Box 4287	Internet: www.alomone.com
Jerusalem 9104201	E-mail: info@alomone.com
Israel	

1.4 Emergency telephone number

Telephone: +972-2-587-2202 (Sun-Thu 08.00-18.00 IST)

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Acute toxicity, (Category 1) H300: Fatal if swallowed.

Acute toxicity, (Category 2) H330: Fatal if inhaled.

2.2 Label elements

Signal Word	Danger
Hazard Statements H300 + H330	Fatal if swallowed or if inhaled.
Precautionary Statements	
P260	Do not breathe dust.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P284	Wear respiratory protection.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
Supplemental Hazard Statements	none

2.3 Other hazards

Other hazards Danger Fatal if swallowed or if inhaled. Do not breathe dust. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear respiratory protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. Store in a well-ventilated place. Keep container tightly closed. none This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting

properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Product name: Aconitine

CAS Number: 302-27-2

Molecular Formula: $C_{34}H_{47}NO_{11}$

Molecular Weight: 645.74

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

In all cases of exposure, obtain medical advice.

Inhalation: Move to fresh air and monitor breathing. If breathing becomes difficult give oxygen. If breathing stops give artificial respiration. Obtain medical attention.

Skin Contact: Wash off immediately with plenty of water while removing all contaminated clothing. Wash before reuse.

Eye Contact: Hold eyelids apart and flush eyes with plenty of water.

Ingestion: Rinse mouth with plenty of water. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to the professional medical staff. Immediate medical attention is required.

Section 5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of toxic and corrosive gases/vapors.

5.3 Precautions for fire-fighters

Wear self-contained breathing apparatus for firefighting and protective clothing to prevent contact with skin and eyes.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Avoid breathing vapors, mist or gas.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Containment and clean-up methods and materials

Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to

minimize spreading. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat. Keep away from source of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Avoid contact with skin. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid the formation and inhalation of dust/fumes. If ingested, seek medical advice immediately and show the container or the label.

7.2 Conditions for safe storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from direct sunlight. Shipped at room temperature. Product as supplied can be stored intact at room temperature for several weeks. For longer periods, it should be stored at -20°C

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure guidelines

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Ensure adequate ventilation, especially in confined areas. Use in a fume hood where applicable. Ensure laboratory is equipped with a safety shower and eye wash station. General industrial hygiene practice.

Personal protective equipment

Eye/face: Safety goggles.

Skin: Chemical resistant gloves. Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

Body: Wear appropriate protective clothing. Remove and wash contaminated clothing before re-use.

Respiratory protection: Use a suitable respirator as conditions warrant.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties

- a) Physical state: powder
- b) Color: white
- c) Odor: No data available
- d) Melting point/freezing point: Melting point/range: 203 - 204 °C
- e) Initial boiling point and boiling range: No data available
- f) Flammability (solid, gas): No data available
- g) Upper/lower flammability or explosive limits: No data available
- h) Flash point: No data available: No data available
- i) Decomposition temperature: No data available
- j) Autoignition temperature: No data available
- k) pH: No data available
- l) Viscosity: Viscosity, kinematic: No data available Viscosity, dynamic: No data available
- m) Water solubility: No data available
- n) Partition coefficient: n-octanol/water: log Pow: 2,011
- o) Vapor pressure: No data available
- p) Density Relative density: No data available

- q) Relative vapor density: No data available
- r) Particle characteristics: No data available
- s) Explosive properties: No data available
- t) Oxidizing properties: No data available

9.2 Other information

No data available

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under recommended conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Strong oxidizing agents, strong acids/bases.

10.6 Hazardous combustion or decomposition products

May emit toxic gases upon thermal decomposition.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Toxicological effects

Acute toxicity

LD50 Oral - Mouse - 1 mg/kg

Acute toxicity estimate Inhalation - 4 h - 0,051 mg/l - dust/mist

(Expert judgment)

Dermal: No data available

Skin corrosion/irritation

Remarks: No data available

Serious eye damage/eye irritation

Remarks: No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

Product:

Assessment : The substance/mixture does not contain

components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

RTECS: AR5960000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio-accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

Section 13. DISPOSAL CONSIDERATIONS

13.1 Waste methods

Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with federal, state and local environmental control regulations.

Contaminated packaging

Dispose in a regulated landfill site or other method for hazardous or toxic waste in accordance with federal, state and local environmental control regulations.

Section 14. TRANSPORT INFORMATION

ADR Not dangerous goods.

IATA Not dangerous goods.

DOT Not dangerous goods.

TGD Not dangerous goods.

IMDG/IMO Not dangerous goods.

Section 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Chemical safety assessment

None has been made for this product.

Section 16. OTHER INFORMATION

H300 Fatal if swallowed.

H330 Fatal if inhaled.

The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow local and national safety legislation. The absence of warning may not, under any circumstances, be taken to mean that no hazard exists. Alomone Labs disclaims all liability for any damage resulting from use of this material.

Last modified: January 5, 2026

Document creation date: January 5, 2026