MANDELIC ACID

Datasheet

PRODUCT INFORMATION

Name: Mandelic acid
Catalog No.: KRN93266
Cas No.: 611-71-2
Purity: >=98%
M.F: C₈H₈O₃
M.W: 152.14
Physical Description: Powder
Synonyms: ----

POTENTIAL USES

1. Reference standards; 2. Pharmacological research; 3. Food and cosmetic research;

SOURCE

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BIOLOGICAL ACTIVITY OR INHIBITORS

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SOLVENT

Pyridine, Methanol, Ethanol, Hot water, etc.

HPLC METHOD

Mobile phase:  ----  
Flow rate:  ----  
Column temperature:  ----  
The wave length of determination:  ----

STORAGE

2-8°C, Protected from air and light, refrigerate or freeze.

REFERENCES

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Name: Mandelic acid
Catalog No.: KRN93266
Cas No.: 611-71-2
Purity: >= 98%
M.F: C₈H₈O₃
Physical Description: Powder
Solvent: Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.
Weight: 20mg
Lot No.: KRS201701
Storage: Protected from air and light, refrigerate or freeze (2-8 °C)
Intended Use: For laboratory use only
Shelf Life: 2 years

CHARACTERIZATION DATA SUMMARY

Analytical Test | Results
--- | ---
Identification by, NMR, | Consistent with the above structure
Purity tested | >= 98%
1. PRODUCT AND COMPANY IDENTIFICATION

GHS Product Name: Mandelic acid

Product code: KRN93266

Company: KAMPOYAKI HERS PTE LTD

Address: 16 New Industrial Road, #05-05 Hudson Techno Centre Singapore 536204

Tel: +65-63833202

Fax: +65-63833632

Website: www.kampoyaki-research.com

E-mail: thiru-sam@kampoyaki-research.com | kampoyak@singnet.com.sg

2. HAZARDS IDENTIFICATION

2.1 GHS classification

Physical Hazards: Not classified

Health Hazards: Not classified

Environmental Hazards: Not classified

2.2 GHS label elements, including precautionary statements

Pictograms or hazard symbols: None

Signal word: No signal word

Hazard statements: None

Precautionary statements: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Mandelic acid

CAS#: 611-71-2

Purity: >=98%

Formula: C₈H₈O₃
**Molecular Weight:** 152.14

**Hazard Symbols:** ---

**Risk Phrases:** ---

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Consult a doctor.

**Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Consult a doctor.

**Ingestion:** Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Consult a doctor.

**Inhalation:** Remove from exposure and move to fresh air immediately. Consult a doctor.

#### 4.2 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Suitable extinguishing

**Media:** Dry chemical, foam, water spray, carbon dioxide.

**Precautions for firefighters:** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

#### 5.2 Special protective

**Equipment for firefighters:** When extinguishing fire, be sure to wear personal protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 General Information

Use proper personal protective equipment as indicated in Section 8.
6.4 Spills/Leaks

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

7.2 Storage

Store in a well closed container. Protected from air and light, refrigerate or freeze.(2-8°C)

7.3 Specific end uses

Use in a laboratory fume hood where possible. Refer to employer is COSHH risk assessment.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Engineering controls

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Control parameters:  Not set up

8.2 Personal protective equipment

Respiratory protection:  Dust respirator. Follow local and national regulations.

Hand protection:  Protective gloves.

Eye protection:  Wear safety glasses and chemical goggles if splashing is possible.

Skin and body protection:  Wear appropriate protective gloves and clothing to prevent skin exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance  Yellow powder
b) Odour  no data available
c) Odour Threshold  no data available
d) pH  no data available
e) Melting point/freezing point  no data available
f) Initial boiling point and boiling range  no data available
g) Flash point  no data available
h) Evaporation rate  no data available
i) Flammability (solid, gas)  no data available
j) Flammability or explosive limits  no data available
k) Vapour pressure  no data available
l) Vapour density
10 - STABILITY AND REACTIVITY

10.1 Reactivity
Stable under recommended transport or storage conditions.

10.2 Chemical Stability
Stable under normal temperatures and pressures.

10.3 Conditions to Avoid
Incompatible materials, strong oxidants, heat.

10.4 Incompatibilities with Other Materials
Strong oxidising/reducing agents, strong acids/alkalis.

10.5 Hazardous Decomposition Products
Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

10.6 Hazardous Polymerization
Has not been reported.

11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** No data available
- **Skin corrosion/irritation:** No data available
- **Serious eye damage/irritation:** No data available
- **Germ cell mutagenicity:** No data available
- **Carcinogenicity:** ---
  - **IARC:** No data available
  - **NTP:** No data available
  - **Reproductive toxicity:** No data available

12. ECOLOGICAL INFORMATION
Toxicity: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Results of PBT and vPvB assessment: No data available
Other adverse effects: May be harmful to the aquatic environment.

13. DISPOSAL CONSIDERATIONS
Dispose of in a manner consistent with federal, state, and local regulations.

14. TRANSPORT INFORMATION

14.1 Hazards Class:
Does not meet the criteria for classification as hazardous for transport

14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport hazard class(es)
Does not meet the criteria for classification as hazardous for transport.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available

15.2 Chemical Safety Assessment
No data available

16. ADDITIONAL INFORMATION
This GHS SDS above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.