

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DL-Kynurenine

Product Number : 61250  
Brand : Aldrich

Company : Sigma-Aldrich Canada, Ltd  
2149 Winston Park Drive  
OAKVILLE ON L6H 6J8  
CANADA

Telephone : +1 9058299500  
Fax : +1 9058299292  
Emergency Phone # : 800-424-9300

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 2-Amino-3-(2-aminobenzoyl)propionic acid  
2-Amino-4-(2-aminophenyl)-4-oxobutyric acid

Formula : C<sub>10</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub>  
Molecular Weight : 208.21 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>α-2-Diamino-γ-oxobenzenebutyric acid</b>			
343-65-7	206-445-9	-	-

## 3. HAZARDS IDENTIFICATION

**WHMIS Classification**  
Not WHMIS controlled. Not WHMIS controlled.

**HMIS Classification**  
Health Hazard: 0  
Flammability: 0  
Physical hazards: 0

## Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** May be harmful if swallowed.

## 4. FIRST AID MEASURES

**If inhaled**  
If breathed in, move person into fresh air. If not breathing give artificial respiration

**In case of skin contact**  
Wash off with soap and plenty of water.

**In case of eye contact**  
Flush eyes with water as a precaution.

**If swallowed**  
Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 5. FIRE-FIGHTING MEASURES

**Flammable properties**  
Flash point no data available  
Ignition temperature no data available

**Suitable extinguishing media**  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**  
Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**  
Avoid dust formation.

**Environmental precautions**  
Do not let product enter drains.

**Methods for cleaning up**  
Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

**Handling**  
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage**  
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

## Personal protective equipment

**Respiratory protection**  
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**  
For prolonged or repeated contact use protective gloves.

**Eye protection**  
Safety glasses

**Hygiene measures**  
General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Appearance

Form powder  
Colour dark yellow

## Safety data

pH no data available  
Melting point 235 °C (455 °F)  
Boiling point no data available  
Flash point no data available  
Ignition temperature no data available  
Lower explosion limit no data available  
Upper explosion limit no data available  
Water solubility no data available  
Partition coefficient: log Pow: -3.087  
n-octanol/water

## 10. STABILITY AND REACTIVITY

**Storage stability**  
Stable under recommended storage conditions.

**Materials to avoid**  
Strong oxidizing agents

**Hazardous decomposition products**  
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

## 11. TOXICOLOGICAL INFORMATION

## Acute toxicity

no data available

## Irritation and corrosion

no data available

## Sensitisation

no data available

## Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

## Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** May be harmful if swallowed.

## 12. ECOLOGICAL INFORMATION

## Elimination information (persistence and degradability)

no data available

## Ecotoxicity effects

no data available

## Further information on ecology

no data available

## 13. DISPOSAL CONSIDERATIONS

**Product**  
Observe all federal, state, and local environmental regulations.

**Contaminated packaging**  
Dispose of as unused product.

## 14. TRANSPORT INFORMATION

**DOT (US)**  
Not dangerous goods

**IMDG**  
Not dangerous goods

**IATA**  
Not dangerous goods

## 15. REGULATORY INFORMATION

## TSCA Status

Not On TSCA Inventory

CAS-No.

α-2-Diamino-γ-oxobenzenebutyric acid

343-65-7

## DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

α-2-Diamino-γ-oxobenzenebutyric acid

CAS-No.  
343-65-7

## WHMIS Classification

Not WHMIS controlled.

Not WHMIS controlled.

## 16. OTHER INFORMATION

## Further information

Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.