

Safety Data Sheet (SDS)

Product Name: Adipic Acid
CAS Number: 124-04-9
EC Number: 204-673-3
Molecular Formula: C₆H₁₀O₄
Molecular Weight: 146.14 g/mol

1. Identification

Product identifier
Adipic Acid

Recommended use
Laboratory chemical, analytical reagent, intermediate and technical compound for research and laboratory use.

Supplier
Rexar
Genestetstraat 3
2394 XK Hazerswoude Rijndijk
Netherlands
info@rexar.nl

2. Hazard Identification

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Eye Irritation, Category 2
H319 Causes serious eye irritation

Specific target organ toxicity – single exposure, Category 3
H335 May cause respiratory irritation

Label elements

Hazard pictogram
GHS07 (Exclamation mark)

Signal word
Warning

Hazard statements

H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary statements

P261 Avoid breathing dust

P264 Wash hands thoroughly after handling

P280 Wear protective gloves and eye protection

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

P337 + P313 If eye irritation persists: Get medical advice/attention

3. Composition / Information on Ingredients

Substance

Adipic Acid

CAS Number

124-04-9

EC Number

204-673-3

Purity

Typically $\geq 99\%$

4. First Aid Measures

General advice

Remove contaminated clothing. Seek medical advice if symptoms persist.

Inhalation

Move person to fresh air. Seek medical attention if respiratory irritation develops.

Skin contact

Wash skin thoroughly with soap and water.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Ingestion

Rinse mouth with water. Do not induce vomiting. Seek medical advice if discomfort occurs.

5. Fire Fighting Measures

Suitable extinguishing media

Water spray, dry chemical powder, carbon dioxide or foam.

Specific hazards

Combustion may produce carbon oxides and irritating fumes.

Protective equipment

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions

Use appropriate personal protective equipment. Avoid dust formation.

Environmental precautions

Prevent large quantities from entering drains or waterways.

Methods for cleanup

Sweep up material carefully and place in suitable container for disposal.

7. Handling and Storage

Handling

Handle in accordance with good laboratory practice. Avoid dust formation and contact with eyes.

Storage

Store in a cool, dry and well-ventilated area. Keep container tightly closed.

8. Exposure Controls / Personal Protection

Engineering controls

Use adequate ventilation.

Personal protective equipment

Eye protection

Safety glasses or chemical splash goggles

Skin protection

Protective gloves

Respiratory protection
Dust mask recommended when dust is generated.

9. Physical and Chemical Properties

Appearance
White crystalline powder

Odor
Odorless

Melting point
Approx. 151–153 °C

Solubility
Moderately soluble in water.

10. Stability and Reactivity

Stability
Stable under recommended storage conditions.

Conditions to avoid
Excessive heat and dust formation.

Incompatible materials
Strong oxidizing agents.

Hazardous decomposition products
Carbon oxides.

11. Toxicological Information

Acute toxicity
Not classified as acutely toxic at typical laboratory exposure levels.

Skin irritation
May cause mild irritation.

Eye irritation
Causes serious eye irritation.

Respiratory irritation
Dust may cause respiratory irritation.

12. Ecological Information

Ecotoxicity

No significant environmental hazard expected at typical laboratory quantities.

Persistence and degradability

Biodegradable.

13. Disposal Considerations

Dispose of material in accordance with local, regional and national regulations through licensed chemical waste handlers.

14. Transport Information

UN number

Not regulated for transport.

Transport hazard class

Not classified as dangerous goods for ADR, IMDG or IATA.

15. Regulatory Information

Classification according to EU CLP Regulation (EC) No. 1272/2008.

Eye Irritation Category 2 – H319

STOT SE Category 3 – H335

16. Other Information

This Safety Data Sheet is provided for laboratory safety guidance.

The product is supplied as a chemical substance for analytical, technical or research applications only.

Not intended for human or animal consumption or for medical use.