

Safety data sheet according to UK REACH

Page 1/11

Printing date 03.09.2025

Revision: 03.09.2025

Version number 7.05 (replaces version 7.04)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: 2-aminoethanol

· Article number: 1924

· CAS Number:

141-43-5

· EC number:

205-483-3

· Index number:

603-030-00-8

· Application of the substance / the mixture

Biochemistry

Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès (Barcelona)

Tel. (+34) 937 489 400

Fax. (+34) 937 489 401 e-mail: product.safety@itwreagents.com

- · Further information obtainable from: email: product.safety@panreac.com
- · 1.4 Emergency telephone number:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage. STOT SE 3 H335 May cause respiratory irritation.

(Contd. on page 2)

Page 2/11

Printing date 03.09.2025

Revision: 03.09.2025

Version number 7.05 (replaces version 7.04)

Trade name: 2-aminoethanol

(Contd. of page 1)

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the GB CLP regulation.

· Hazard pictograms





GHS05 GHS07

- · Signal word Danger
- · Hazard statements

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description

141-43-5 2-aminoethanol

- · Identification number(s)
- **EC number**: 205-483-3
- · Index number: 603-030-00-8

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Involve doctor immediately.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 3)

Page 3/11

Printing date 03.09.2025 Revision: 03.09.2025

Version number 7.05 (replaces version 7.04)

Trade name: 2-aminoethanol

(Contd. of page 2)

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

· After skin contact:

Call a doctor immediately.

Dab with polyethylene glycol 400.

Immediately wash with water and soap and rinse thoroughly.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

make victim drink water (maximum of 2 drinking glasses)

Do not attempt to neutralize.

Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide and carbon dioxide

Combustible.

Forms explosive mixtures with air on intense heating.

- 5.3 Advice for firefighters
- · Protective equipment:

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

· Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Contain escaping vapours with water.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Avoid substance contact.

Do not inhale steams/aerosols.

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (AppliSorb).

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Clean up affected area.

(Contd. on page 4)

Page 4/11

Printing date 03.09.2025 Revision: 03.09.2025

Version number 7.05 (replaces version 7.04)

Trade name: 2-aminoethanol

· 6.4 Reference to other sections

(Contd. of page 3)

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Provide alkali-resistant floor.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

Store receptacle in a well ventilated area.

Store under lock and key and with access restricted to technical experts or their assistants only.

- · Recommended storage temperature: Room Temperature
- · Storage class: 8 A
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

| Ingredients with limit values that require monitoring at the workplace: |
|---|
|---|

141-43-5 2-aminoethanol

WEL Short-term value: 7.6 mg/m³, 3 ppm Long-term value: 2.5 mg/m³, 1 ppm Sk

· DNELs

| Oral | Long-term - systemic effects, general population | 3.75 mg/kg |
|------------|--|------------|
| Dermal | Long-term - systemic effects, worker | 1 mg/kg |
| | Long term - systemic effects, general population | 0.24 mg/kg |
| Inhalative | Long-term - local effects, worker | 3.3 mg/m3 |
| | Long-term - systemic effects, general population | 2 mg/m3 |
| | Long-term - local effects, general population | 2 mg/m3 |

· PNECs

| Aquatic compartment - freshwater | 0.085 mg/L |
|--|--------------|
| Aquatic compartment - marine water | 0.0085 mg/L |
| Aquatic compartment - water, intermittent releases | 0.025 mg/L |
| Aquatic compartment - sediment in freshwater | 0.425 mg/kg |
| Aquatic compartment - sediment in marine water | 0.0425 mg/kg |
| Terrestrial compartment - soil | 0.035 mg/kg |

· Additional information: The lists valid during the making were used as basis.

(Contd. on page 5)

Page 5/11

Printing date 03.09.2025 Revision: 03.09.2025

Version number 7.05 (replaces version 7.04)

Trade name: 2-aminoethanol

(Contd. of page 4)

- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

Filter A

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Use suitable respiratory protective device only when aerosol or mist is formed.

Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

· As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

Eye/face protection



Gauze goggles

Body protection:

Use protective suit.

Alkaline resistant protective clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- · General Information

· Physical state Liquid · Colour: Colourless · Odour: Amine-like

· Odour threshold: Not determined.

(Contd. on page 6)

Page 6/11

Printing date 03.09.2025 Revision: 03.09.2025 Version number 7.05 (replaces version 7.04)

Trade name: 2-aminoethanol

| | (Contd. of page |
|--|---|
| Melting point/freezing point: | 4 °C |
| Boiling point or initial boiling point and boiling | |
| range | 166.8 °C |
| Flammability | Not applicable. |
| Lower and upper explosion limit | |
| Lower: | 3.4 Vol % |
| Upper: | Not determined. |
| Flash point: | 91 °C |
| Auto-ignition temperature: | 410 °C |
| Decomposition temperature: | Not determined. |
| • | 12.1 |
| pH Viscositus | 12.1 |
| Viscosity: | Nie Aude Associated |
| Kinematic viscosity | Not determined. |
| Dynamic at 20 °C: | 23.86 mPas |
| Solubility | |
| water: | Not determined. |
| Partition coefficient n-octanol/water (log value) | Not determined. |
| Vapour pressure at 20 °C: | 0.5 hPa |
| Density and/or relative density | |
| Density at 20 °C: | 1.017 g/cm ³ |
| Relative density | Not determined. |
| Vapour density | Not determined. |
| ' ' | |
| 9.2 Other information | |
| Appearance: | |
| Form: | Fluid |
| Important information on protection of health | 1 |
| and environment, and on safety. | |
| Ignition temperature: | Not determined. |
| Explosive properties: | Product does not present an explosion hazard. |
| Solvent content: | · |
| VOC (EC) | 100 % |
| Molecular weight | 61.08 g/mol |
| Change in condition | o 1.00 g/moi |
| Evaporation rate | Not determined. |
| <u> </u> | |
| Information with regard to physical hazard | 1 |
| classes | |
| Explosives | Void |
| Flammable gases | Void |
| Aerosols | Void |
| Oxidising gases | Void |
| Gases under pressure | Void |
| Flammable liquids | Void |
| Flammable solids | Void |
| Self-reactive substances and mixtures | Void |
| | |
| Pyrophoric liquids | Void |
| Pyrophoric solids | Void |
| Self-heating substances and mixtures | Void |
| Substances and mixtures, which emit flammable |) |
| gases in contact with water | Void |
| Oxidising liquids | Void |
| Oxidising solids | Void |
| | |
| Organic peroxides | Void |

Page 7/11

Printing date 03.09.2025

Revision: 03.09.2025

Version number 7.05 (replaces version 7.04)

Trade name: 2-aminoethanol

(Contd. of page 6) · Corrosive to metals Void Desensitised explosives Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

Warming. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

- 10.3 Possibility of hazardous reactions Reacts with oxidising agents.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: copper
- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5
- Additional information:

Incompatible with:

rubber

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if swallowed, in contact with skin or if inhaled.
- · LD/LC50 values relevant for classification:

Quantitative data on the toxicological effect of this product are not available.

| · Components | | Type | Value | Species |
|--------------|----------|----------------------|-------|---------|
| Oral | LD50 | 1,515 mg/kg (rat) | | |
| Dermal | LD50 | 2,504 mg/kg (rabbit) | | |
| Inhalative | LC50/4 h | 11 mg/l (ATE) | | |

- · Primary irritant effect:
- · Skin corrosion/irritation Causes severe skin burns and eye damage.
- · Serious eye damage/irritation Causes serious eye damage.
- · After inhalation: Strong caustic effect on skin and mucous membranes.
- · **STOT-single exposure** May cause respiratory irritation.
- 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

(Contd. on page 8)

Page 8/11

Printing date 03.09.2025 Revision: 03.09.2025

Version number 7.05 (replaces version 7.04)

-

Trade name: 2-aminoethanol

(Contd. of page 7)

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

| SECTION 14: Transport informat | ion |
|---|------------------------------|
| · 14.1 UN number or ID number · ADR, IMDG, IATA | UN2491 |
| · 14.2 UN proper shipping name · ADR, IMDG, IATA | ETHANOLAMINE |
| · 14.3 Transport hazard class(es) | |
| · ADR | |
| | |
| · Class · Label | 8 (C7) Corrosive substances. |
| · IMDG, IATA | |
| · Class | 8 Corrosive substances. |
| · Label | 8 |
| · 14.4 Packing group · ADR, IMDG, IATA | III |
| · 14.5 Environmental hazards: | Not applicable. |

(Contd. on page 9)

Page 9/11

Printing date 03.09.2025

Revision: 03.09.2025

Version number 7.05 (replaces version 7.04)

Trade name: 2-aminoethanol

(Contd. of page 8)

• 14.6 Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code):EMS Number:F-A,S-B

· Segregation groups (SGG18) Alkalis

Stowage Category A

Segregation Code SG35 Stow "separated from" SGG1-acids

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

ategory 3

· Transport category 3 · Tunnel restriction code E

· IMDG

· Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": UN 2491 ETHANOLAMINE, 8, III

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act
- · Regulated explosives precursors Substance is not listed.
- · Regulated poisons Substance is not listed.
- · Reportable explosives precursors Substance is not listed.
- · Reportable poisons Substance is not listed.
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

(Contd. on page 10)

Safety data sheet according to UK REACH

Printing date 03.09.2025

Revision: 03.09.2025

Page 10/11

(Contd. of page 9)

Version number 7.05 (replaces version 7.04)

Trade name: 2-aminoethanol

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.

Annex: Exposure scenario

- · Short title of the exposure scenario Use in laboratories
- · Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture Raw material.
- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting worker exposure

Avoid contact with eyes.

Avoid contact with the skin.

Do not breathe gas/vapour/aerosol.

- Other operational conditions affecting consumer exposure No special measures required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- · Technical protective measures Ensure that suitable extractors are available on processing machines
- Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Tightly sealed goggles

Filter A

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Use suitable respiratory protective device only when aerosol or mist is formed.

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- · **Measures for consumer protection** Ensure adequate labelling.
- · Environmental protection measures
- · Water

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

• **Disposal measures** Ensure that waste is collected and contained.

(Contd. on page 11)

Safety data sheet according to UK REACH

Printing date 03.09.2025

Revision: 03.09.2025

Page 11/11

Version number 7.05 (replaces version 7.04)

Trade name: 2-aminoethanol

(Contd. of page 10)

· Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Worker (dermal)

The calculated value is smaller than the DNEL.

The exposure estimation was carried out in accordance with ECETOC TRA.

Worker (inhalation)

The calculated value is smaller than the DNEL.

The exposure estimation was carried out in accordance with ECETOC TRA.

- · Consumer Not relevant for this Exposure Scenario.
- Guidance for downstream users No further relevant information available.

GF