

according to Regulation (EC) No 1907/2006

Essigsäure 97,5 % ± 0,4 % (m/m)

Revision date: 17.03.2025

Product code: 34997

Page 1 of 12

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

1.1. Product identifier

Essigsäure 97,5 % ± 0,4 % (m/m)

UFI:

2NW3-E3K1-F00F-XC62

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

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
	ACD	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax:0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone:0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
<u>number:</u>	•	REC Day or Night Within USA and Canada: anada: +1 703-741-5970 (collect calls

Further Information

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 3; H226 Skin Corr. 1A; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008 Hazard components for labelling acetic acid

Signal word:

Danger

Pictograms:





Hazard statements H226

Flammable liquid and vapour.



according to Regulation (EC) No 1907/2006

Essigsäure 97,5 % ± 0,4 % (m/m)

Revision date: 17.03.2025	Product code: 34997	Page 2 of 12
H314	Causes severe skin burns and eye damage.	
Precautionary statement	ts	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P260	Do not breathe mist/vapours/spray.	
P280	Wear protective gloves/protective clothing and eye protection/face protection.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with wate or shower.	r
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.	

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name	Chemical name					
	EC No	EC No Index No REACH No					
	Classification (Regulation (EC) No 1272/2008)						
64-19-7	acetic acid	acetic acid					
	200-580-7	607-002-00-6	01-2119475328-30				
	Flam. Liq. 3, Skin Corr. 1A, Eye Dam. 1; H226 H314 H318						

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Conc. Limits, M-factors and ATE				
64-19-7	200-580-7	acetic acid	95 - < 100 %		
		810 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 25 - < 90 5: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25			

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Self-protection of the first aider

After inhalation

Provide fresh air.

Call a physician immediately.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.



according to Regulation (EC) No 1907/2006

Essigsäure 97,5 % ± 0,4 % (m/m)

Revision date: 17.03.2025

Product code: 34997

Page 3 of 12

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Irritant corrosive Dyspnoea Gastrointestinal complaints Vomiting Circulatory collapse Corneal opacity. Risk of serious damage to eyes.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide Acetic acid vapour Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.



according to Regulation (EC) No 1907/2006

Essigsäure 97,5 % ± 0,4 % (m/m)

Revision date: 17.03.2025

Product code: 34997

Page 4 of 12

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



according to Regulation (EC) No 1907/2006

Essigsäure 97,5 % ± 0,4 % (m/m)

Revision date: 17.03.2025

Product code: 34997

Page 5 of 12

Hints on joint storage national regulations

Further information on storage conditions

Store in a dry place.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
64-19-7	Acetic acid	10	25		TWA (8 h)	
		20	50		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64-19-7	acetic acid			
Worker DNEL,	long-term	inhalation	local	25 mg/m³
Worker DNEL,	acute	inhalation	local	25 mg/m³
Consumer DNEL, long-term		inhalation	local	25 mg/m³
Consumer DNE	EL, acute	inhalation	local	25 mg/m³

PNEC values

CAS No	Substance					
Environmental compartment Value						
64-19-7	acetic acid					
Freshwater		3,058 mg/l				
Freshwater (intermittent releases) 30,58 mg/l						
Marine water 0,306 m						
Freshwater sediment 1						
Marine sedime	1,136 mg/kg					
Micro-organisn	85 mg/l					
Soil 0,47 mg/kg						

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles Face protection umbrella

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):



according to Regulation (EC) No 1907/2006

Essigsäure 97,5 % ± 0,4 % (m/m)

Revision date: 17.03.2025

Product code: 34997

Page 6 of 12

By long-term hand contact KCL 897 Butoject® Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with permanent contact: > 480 min

By short-term hand contact KCL 890 Vitoject® FKM (fluoro rubber) 0,7 mm Wearing time with occasional contact (splashes): > 60 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Take off immediately all contaminated clothing and wash it before reuse.

Wear fire resistant or flame retardant clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Filtering device (full mask or mouthpiece) with filter: E-(P2)

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	Liquid colourless stinging	
Odour threshold:	No data available	
Melting point/freezing point:		17 °C
Boiling point or initial boiling point and		116-118 °C
boiling range:		
Flammability:		No data available
Lower explosion limits:		4 vol. %
Upper explosion limits:		19,9 vol. %
Flash point:		39 °C
Auto-ignition temperature:		463 °C
Decomposition temperature:		No data available
pH-Value (at 20 °C):		acidic
Viscosity / kinematic:		1,17 mm²/s
(at 20 °C)		



according to Regulation (EC) No 1907/2006

Es	sigsäure 97,5 % ± 0,4 % (m/m)	
Revision date: 17.03.2025	Product code: 34997	Page 7 of 12
Water solubility: (at 25 °C) Solubility in other solvents No data available	602,9 g/l	
Dissolution rate: Partition coefficient n-octanol/water: Dispersion stability: Vapour pressure: (at 20 °C) Vapour pressure: Relative density:	No data available No data available No data available 16 hPa hPa No data available No data available	
Bulk density: Relative vapour density:	No data available No data available No data available	
9.2. Other information		
Information with regard to physical hazard of Explosive properties Vapours are heavier than air, spread along Sustained combustibility: Self-ignition temperature Solid: Gas: Oxidizing properties No data available	p floors and form explosive mixtures with air. Sustained combustibility No data available No data available	
Other safety characteristics Evaporation rate: Solvent separation test: Solid content: Sublimation point: Softening point: Pour point: Viscosity / dynamic: (at 20 °C) Flow time:	No data available No data available No data available No data available No data available No data available 1,22 mPa·s No data available	
Further Information		
No data available		
SECTION 10: Stability and reactivity		
10.1 Departivity		

10.1. Reactivity

In case of warming: Vapours may form explosive mixtures with air.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent peroxides, for example hydrogen peroxide permanganates, e.g. potassium permanganate Oxidising agent, strong Metal iron and steel Zinc Alkali (lye)



according to Regulation (EC) No 1907/2006

Essigsäure 97,5 % ± 0,4 % (m/m)

Revision date: 17.03.2025

Product code: 34997

Page 8 of 12

aldehydes Alcohols Nitric acid

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Metal

10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

The substance has delayed effects.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name	hemical name									
	Exposure route	Dose		Species	Source	Method					
64-19-7	acetic acid	acetic acid									
		LD50 mg/kg	3310		, ,,	The sodium salt of acetic acid was admin					

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage. Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available



according to Regulation (EC) No 1907/2006

Essigsäure 97,5 % ± 0,4 % (m/m)

Revision date: 17.03.2025

Product code: 34997

Page 9 of 12

Practical experience No data available

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other information

Irritant corrosive Dyspnoea Gastrointestinal complaints Vomiting Circulatory collapse Corneal opacity. Risk of serious damage to eyes.

Further information

Damage to: kidneys

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name								
	Aquatic toxicity		[h] [d]	Species	Source	Method			
64-19-7	acetic acid								
	Acute fish toxicity	LC50 mg/l	> 1000	96 h	Oncorhynchus mykiss	Study report (2005)	other: SOP E257		
	Acute algae toxicity	ErC50 mg/l	> 1000		Skeletonema costatum	Study report (2005)	ISO 10253		
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna	Study report (1990)	OECD Guideline 202		

12.2. Persistence and degradability

99 %; 30 d

Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-19-7	acetic acid	-0,17
BCF		-

CAS No	Chemical name	BCF	Species	Source
64-19-7	acetic acid	3,16	fish	Environ. Toxicol. Ch

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



according to Regulation (EC) No 1907/2006

Essigsäure 97,5 % ± 0,4 % (m/m)

Revision date: 17.03.2025

Product code: 34997

Page 10 of 12

12.7. Other adverse effects

Do not allow to enter into surface water or drains. Avoid release to the environment. Harmful effect due to pH shift.

Further information

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 2789	
14.2. UN proper shipping name:	ACETIC ACID SOLUTION	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8+3	
Classification code:	CF1	
Limited quantity:	1 L	
Excepted quantity:	E2	
Transport category:	2	
Hazard No:	83	
Tunnel restriction code:	D/E	
Inland waterways transport (ADN)		
14.1. UN number or ID number:	UN 2789	
14.2. UN proper shipping name:	ACETIC ACID SOLUTION	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8+3	
Classification code:	CF1	
Limited quantity:	1 L	
Excepted quantity:	E2	
Marine transport (IMDG)		
14.1. UN number or ID number:	UN 2789	
14.2. UN proper shipping name:	ACETIC ACID SOLUTION	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8+3	
Special Provisions:	-	
Limited quantity:	1 L	
Excepted quantity:	E2	
EmS:	F-E, S-C	
Segregation group:	1 - acids	
Air transport (ICAO-TI/IATA-DGR)		



according to Regulation (EC) No 1907/2006

Essigsäure 97,5 % ± 0,4 % (m/m)				
Revision date: 17.03.2025	Product code: 34997	Page 11 of 12		
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Limited quantity Passenger:Passenger LQ:Excepted quantity:IATA-packing instructions - Passenger:IATA-max. quantity - Passenger:IATA-packing instructions - Cargo:	UN 2789 ACETIC ACID SOLUTION 8 II 8+3 0.5 L Y840 E2 851 1 L 855			
IATA-packing instructions - Cargo. IATA-max. quantity - Cargo:	30 L			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regulation	ations/legislation specific for the substance or mixture			
EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 40, Entry 75 Information according to Directive 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS			
National regulatory information				
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC).	nile		
Water hazard class (D):	1 - slightly hazardous to water			
SECTION 16: Other information				
Abbreviations and acronyms				

Abbreviations and acronyms Flam. Liq: Flammable liquid Skin Corr: Skin corrosion Eye Dam: Eye damage

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Further Information

Provide appropriate information, instructions and training to users

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.



according to Regulation (EC) No 1907/2006

Essigsäure 97,5 % ± 0,4 % (m/m)

Revision date: 17.03.2025

Product code: 34997

Page 12 of 12

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)