



SIGMA-ALDRICH

Material Safety Data Sheet

Date Printed: 05/25/2005
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Version 1.50

Section 1 - Product and Company Information

Product Name Anisole, anhydrous, 99.7%
Product Number 296295
Brand Aldrich Chemical

Company Sigma-Aldrich
Street Address 3050 Spruce Street
City, State, Zip, Country SAINT LOUIS, MO 63103 US
Technical Phone: 314 771 5765
Fax: 800 325 5052
Emergency Phone: 414 273 3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>	<u>EC no</u>	<u>Annex I Index Number</u>
ANISOLE	100-66-3	No	202-876-1	

Formula C7H8O
Synonyms Benzene, methoxy, Ether, methyl phenyl, Methoxybenzene, Methyl phenyl ether, Phenyl methyl ether

Section 3 - Hazards Identification

Emergency Overview
Combustible (USA) Flammable (EU).
Caution: Avoid contact and inhalation.

HMIS Rating
Health: 1 Flammability: 2 Reactivity: 0

NFPA Rating
Health: 1 Flammability: 2 Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure
In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Flash Point: 109.4 °F 43 °C

Autoignition Temp: 475 °C

Extinguishing Media
Suitable
Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting Protective Equipment
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)
Combustible liquid. Emits toxic fumes under fire conditions.



Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill
Evacuate area.

Procedure(s) of Personal Precaution(s)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up
Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling
User Exposure
Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage
Suitable
Keep tightly closed. Keep away from heat and open flame.

Section 8 - Exposure Controls / PPE

Engineering Controls
Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment
Respiratory
Government approved respirator.
Hand
Compatible chemical-resistant gloves.
Eye
Chemical safety goggles.

General Hygiene Measures

Wash contaminated clothing before reuse. Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance	
Physical State	Color
Clear liquid	Colorless
Molecular Weight: 108.14 AMU	
pH N/A	
BP/BP Range	152 - 155 °C
MP/MP Range	-37 °C
Freezing Point	N/A
Vapor Pressure	10 mmHg 42.2 °C
Vapor Density	3.7 g/l
Saturated Vapor Conc.	N/A
SG/Density	0.993 g/cm3
Bulk Density	N/A
Odor Threshold	N/A
Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	Log Kow: 2.1
Decomposition Temp.	N/A
Flash Point °F	109.4 °F
Flash Point °C	43 °C
Explosion Limits	N/A
Flammability N/A	
Autoignition Temp	475 °C
Refractive Index	1.517
Solubility	
Other Solvents: ETHANOL, ACETONE, DIETHYLETHER.	

N/A = not available

Section 10 - Stability and Reactivity

Stability
Stable
Stable.
Materials to Avoid
Strong oxidizing agents.

Hazardous Decomposition Products
Hazardous Decomposition Products
Carbon monoxide, Carbon dioxide.

Hazardous Polymerization
Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

May cause eye irritation.

Inhalation

Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion

May be harmful if swallowed.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: BZ8050000

Toxicity Data

Oral - Rat: 3700 mg/kg (LD50)

Remarks: Behavioral:Somnolence (general depressed activity).
Gastrointestinal:Changes in structure or function of salivary glands.
Kidney, Ureter, Bladder:Hematuria.

Inhalation - Rat: > 5,000 mg/m3 (LC50)

Oral - Mouse: 2800 mg/kg (LD50)

Remarks: Behavioral:Tremor.
Behavioral:Convulsions or effect on seizure threshold.
Behavioral:Excitement.

Inhalation - Mouse: 3,021 mg/m3 (LC50)

Irritation Data

Eyes - Rabbit:

Remarks: No irritation effect

Skin - Rabbit:

Remarks: Mild irritation effect

Skin - Rabbit: 500 mg 24H

Remarks: Moderate Irritation effect

Chronic Exposure - Mutagen

Species	Dose
Human	25 UMOL/L

Cell Type	Mutation test
lymphocyte	DNA inhibition

Section 12 - Ecological Information

No data available.

Accumulation

Bioaccumulation Potential

No indication of bioaccumulation.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.
Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: Anisole
UN#: 2222
Class: 3
Packing Group: Packing Group III
Hazard Label: Flammable liquid
PIH: Not PIH

IATA

Proper Shipping Name: Anisole
IATA UN Number: 2222
Hazard Class: 3
Packing Group: III

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xi
Indication of Danger
Irritant.
Risk Statements R: 10 36
Flammable. Irritating to skin.

US Classification and Label Text

Indication of Danger
Combustible (USA) Flammable (EU).
Safety Statements
Keep away from sources of ignition - no smoking.
US Statements
Caution: Avoid contact and inhalation.

United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: Yes
NDSL: No

Section 16 - Other Information

Disclaimer

For R&D use only. Not for drug, household or other uses.

Warranty

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 Inc., shall not be held liable for

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