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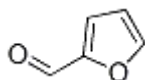
Technical Data Sheet

Furfural

Product Information

Chemical Name Furfural

Chemical Structure



CAS # 98-01-1

EINECS 202-627-7

Molecular Weight 96.08

Synonyms 2-formylfuran;2-Furaldehyde;2-Furancarbal;2-Furancarboxaldehyde (furfural).

Description

Furfural is Colorless or reddish-brown mobile liquids with a penetrating odor. Flash points 140° F. Denser Than water and soluble in water. Vapors heavier than air. May be toxic by ingestion, skin absorption or inhalation.

Furfural reacts with sodium hydrogen carbonate. Furfural also can react with strong oxidizers. An exothermic resinification of almost explosive violence can occur upon contact with strong mineral acids or alkalis. Furfural forms condensation products with many types of compounds, including phenol, amines and urea. .

Physical Properties

Physical state and appearance: liquids

Odor: penetrating

Taste: Not available.

Molecular Weight: 96.08 g/mole

Color: Colorless or reddish-brown

pH (1% soln/water): Not applicable.

Boiling Point: 54-56 °C/11 mm Hg

Melting Point: -36 °C(lit.)

Density: 1.16 g/mL at 25 ° C(lit.)

vapor pressure: 13.5 mm Hg (55 ° C)

refractive index: n₂₀/D 1.527

Sensitive:Air Sensitive

Water Solubility: 8.3 g/100 mL

Specification

Items	Specification
Content,%	≥98.5
Moisture,%	≤0.20
Acid(mol/L)	≤0.016
Refractive Index 20 DEG.C	1.524-1.527
Specific Gravity 20 DEG.C/20DEG.C	1.159-1.161

Applications

- 1) Industrial grade: Furfural is an organic chemical raw material,mainly used in lubricating oil refine, production of furfuryl alcohol,maleic anhydride,tetrahydrofuran etc.
- 2) Medicine grade: Furfural can also be used to produce medicine and veterinary medicine,furan resin, furfuryl alcohol resin,furfural acetone resin etc.
- 3) Other grade: Furfural can be used in food flavoring,dyes and other industries.

Packaging

Iron drum with net weight 250KG/Drum

Storage & Handling

1)Precautions:

Keep locked up.. Keep away from heat.

Keep away from sources of ignition. Ground all equipment containing material.

Do not ingest. Do not breathe gas/fumes/ vapor/spray.

In case of insufficient ventilation, wear suitable respiratory equipment.

If ingested, seek medical advice immediately and show the container or the label.

Avoid contact with skin and eyes.

Keep away from incompatibles such as oxidizing agents, acids, alkalis.

2)Storage:

Store in a segregated and approved area.

Keep container in a cool, well-ventilated area.

Keep container tightly closed and sealed until ready for use.

Avoid all possible sources of ignition (spark or flame).

Do not store below 8°C (46.4°F).