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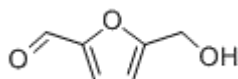
Technical Data Sheet

5-(Hydroxymethyl)Furfural

Product Information

Chemical Name 5-(Hydroxymethyl) Furfural

Chemical Structure



CAS # 67-47-0

EINECS 200-654-9

Molecular Weight 126.11

Molecular Formula C₆H₆O₃

Description

5-Hydroxymethylfurfural is a kind of Light yellow crystal, with melting point 28-34 °C(lit.), and boiling point 114-116 °C/1 mm Hg(lit.). It can be used as pharmaceutical intermediates and to detect glucose infusion metabolites.

Hydroxymethylfurfural (HMF), also 5-(Hydroxymethyl)furfural, is an organic compound derived from dehydration of certain sugars. This yellow low-melting solid is highly water-soluble. The molecule consists of a furan ring, containing both aldehyde and alcohol functional groups. HMF has been identified in a wide variety of baked goods. HMF, which is derived from hexoses, is a potential "carbon-neutral" feedstock for fuels and chemicals.

Physical Properties

Appearance Light yellow crystal

Melting point, °C 28-34 °C(lit.)

Boiling point, °C 114-116 °C/1 mm Hg(lit.)

density 1.243 g/mL at 25 °C(lit.)

refractive index n_{20/D} 1.562(lit.)

Flash point, °F 175

Sensitivity Air & Light Sensitive

Specification

Items	Specification
Appearance	Light yellow crystal or amber liquid
Identification	Positive reaction
Content, % (GC)	≥95.0
Melting point, °C	30.0~36.0
Odor	Caramel, roasted and Zymolysis food odor

Applications

- 1) Medicine grade: 5-Hydroxymethylfurfural can be used as pharmaceutical intermediates and to detect glucose infusion Metabolites
- 2) Spice grade: 5-Hydroxymethylfurfural can be used as Spices intermediates for baked products, dairy products, and tobacco products

Packaging

Aluminum foil bag with net weight 1KG/bag

Storage & Handling

1)Precautions:

Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood.

Ground all equipment containing material.

Do not ingest. Do not breathe dust. Wear suitable protective clothing.

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, reducing agents, alkalis.

2)Storage:

Keep container tightly closed

Keep container in a cool, well-ventilated area.

Do not store above 0°C (32°F). Sensitive to light.
Store in light-resistant containers.