



## Furfuryl alcohol

### I. Description of the Product

**Furfuryl alcohol** also called 2-furylmethanol or 2-furancarbinol, is an organic compound containing a furan substituted with a hydroxymethyl group. It is made from furfural by means of catalysis with hydrogen added in. It is colorless to light yellow color, transparent liquid with bitter almond smell and becomes brown light yellow or deep red when exposed in the air. It can be mixed with water and many organic solvents such as alcohol, ether, acetone etc, but not dissolved in paraffin wax and other hydrocarbon products.

Furfuryl alcohol is manufactured industrially by the catalytic reduction of furfural which is obtained from corncobs and sugar cane bagasse. It finds use as a solvent, but is primarily used as an ingredient in the manufacture of various chemical products such as foundry resins, adhesives, and wetting agents.

Furfuryl alcohol has been used in rocketry as a fuel which ignites hypergolically (immediately and energetically in contact) with nitric acid oxidizer. This avoids needing separate igniters. It is one of the organic synthetic raw materials. It can be used to produce all kinds of furan resin, furfuryl alcohol resin and phenol resin and so on. It is also the good solution of vanish and dye. It can be widely used in sythetic febric, rubber, pesticide and foundry industry.

### II. Applications of the Product

Industrial furfuryl alcohol is mainly used to manufacture furfuryl alcohol resin, which is used as binder of sand core of sand core of thermal core shooting box in precise foundry industry. Also furfuryl alcohol is used to manufacture tetrahydrofurfuryl alcohol, anti-corrosion coating, etc. and used as solvents, thinner or other organic raw material.

### III. Quality Terms



Item	Top quality	We can reach
<b>Properties name</b>	Furfuryl alcohol	
<b>Formula</b>	$C_5H_6O_2$ (OCH:CHCH:CCH <sub>2</sub> OH )	
<b>English name</b>	furfuryl alcohol , furfuralcohol , 2-Furancarbinol , Furfurylalcobol , 2-furanmethanol	
<b>Synonyms</b>	2-Furanmethanol; 2-Furylmethanol; 2-Furylcarbinol; 2-Furancarbinol; Furyl Carbitol	



<b>Molecular Weight</b>	98.10	
<b>UN NO</b>	2874	
<b>Appearance</b>	Clear Colorless to light yellow Bitter Liquid	
<b>CAS NO</b>	98-00-0	
<b>Purity %</b>	≥98.0	98.5
<b>Furfural %</b>	≤0.7	0.5
<b>Moisture %</b>	≤0.3	0.2
<b>Acid (mol/L)</b>	≤0.01	0.008
<b>Density (P<sub>20</sub>)g/ml</b>	1.129-1.135	1.129-1.135
<b>Refractive index (η<sub>D</sub><sup>20</sup>)</b>	1.485-1.488	1.485-1.488
<b>hs code</b>	29321300	
<b>Auto-Ignition Temperature</b>	915°F	
<b>Boiling Point</b>	170-171°C, 68-69°C (1.33kPa)	
<b>Melting Point</b>	-31°C	
<b>Cloud point (°C)</b>	≤10.0	8.0
<b>Hazard class or division</b>	6.1	
<b>Solubility</b>	Easily soluble in cold water, diethyl ether. Very soluble in alcohol. Soluble in benzene. It is soluble in water, but is unstable in aqueous solutions. It is insoluble in paraffin hydrocarbons.	
<b>Explosion</b>	Furfuryl alcohol ignites on contact with 85% Hydrogen Peroxide. May have explosive reactions or polymerization with cyanoacetic acid, formic acid, mineral acids and organic acids.	
<b>Packing</b>	In 230Kg or 240Kg Iron drum	

#### IV. Storage Points for Attention

##### ♀ 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. 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, acids.

##### ♀ Storage:

- ▶ Light Sensitive. Air Sensitive. Store in light-resistant container. 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 above 25°C (77°F).

## V. Usage Points for Attention

Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Prevent contact with combustible or organic materials. Label containers and keep them tightly closed when not in use. Wash thoroughly after handling.

## VI. First-aid Measures

### ♀ Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

### ♀ Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

### ♀ Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

### ♀ Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### ♀ Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

### ♀ Ingestion:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

## VII. Shipping Information

♀ Proper shipping name: furfuryl alcohol

♀ Labeling requirements: 6.1

♀ Un number: un2874





**Henan Hongye Chemical Co., Ltd.**

**PRODUCT INFORMATION SHEET™**

The world leading professional manufacturer and exporter of Thiourea Dioxide and bleaching agent FAS !

♀ Hazard class or division: 6.1

♀ Packing group/risk group: III

---

■ Please read the **MSDS** for this chemical before using!

