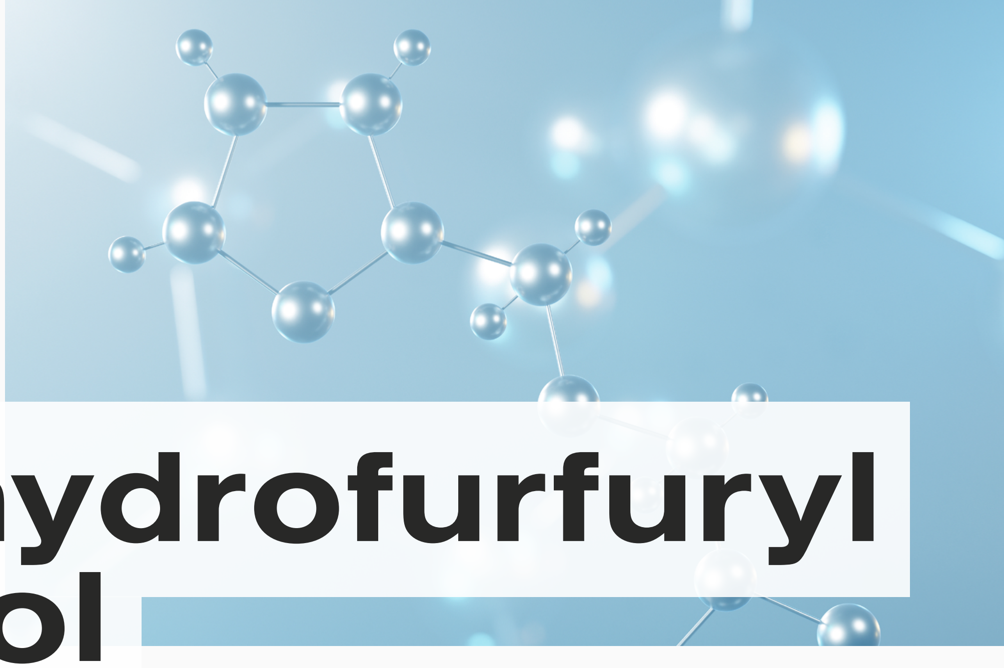
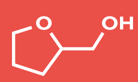
[projects and plants for the chemical industry]



Tetrahydrofurfuryl Alcohol

IMPORTANCE AND APPLICATIONS



Tetrahydrofurfuryl alcohol (THFA) is a **versatile organic compound** derived from furfural, a renewable resource obtained from agricultural biomass. Widely valued in the chemical industry, THFA is used as a **high-performance solvent** and a **key intermediate in the synthesis of resins, plasticizers, and pharmaceuticals**.
Its **biodegradability** and **low toxicity** make it an environmentally responsible choice across multiple applications.

THFA is also used in **agricultural formulations** and **specialty coatings**. As a member of the furfural family, it serves as a valuable precursor to a wide range of advanced molecular scaffolds and functional materials.

- Epoxy resins
- Plasticizer
- Solvent
- Building block for pharmaceutical drug synthesis
- Chemical feedstock for oxygen-containing molecules

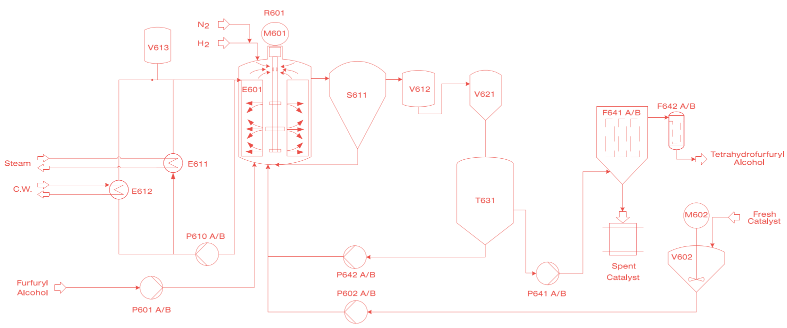
THE BIAZZI TETRAHYDROFURFURYL ALCOHOL PROCESS

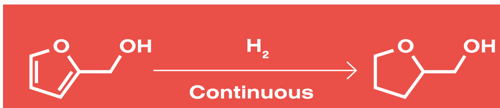
BIAZZI has developed and optimized a **highly efficient and economically viable process** for the commercial production of tetrahydrofurfuryl alcohol through liquid-phase catalytic hydrogenation of furfuryl alcohol. The use of a cheap catalyst combined with a continuous process allows **high volume production at low cost**.
The process yields to high-purity tetrahydrofurfuryl alcohol, making it suitable for demanding industrial applications.

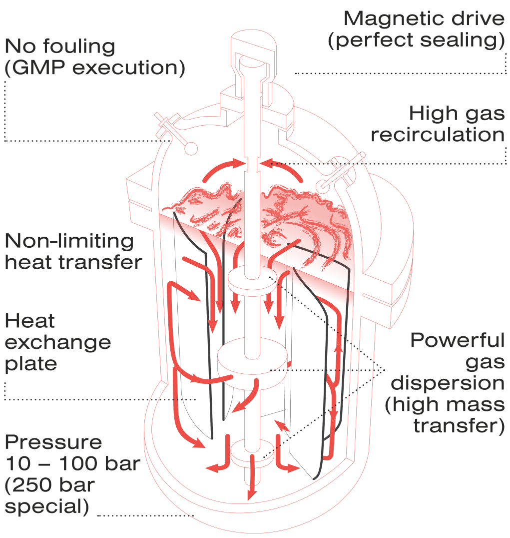
BIAZZI's continuous processing technology offers several **key advantages**:

- Solvent-free ✓
- Low Catalyst Loading ✓
- Cheap Catalyst ✓
- High Productivity ✓
- Safe & Reliable ✓

PROCESS DESCRIPTION

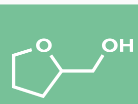






Slurry Phase	Reduced Size Plant	Stoichiometric Hydrogen	Versatile Plant

PRODUCT SPECIFICATION



Tetrahydrofurfuryl Alcohol:	>96 wt%
Valuables: (furfuryl alcohol, 1,2- & 1,5-pentanediol)	~3 wt%

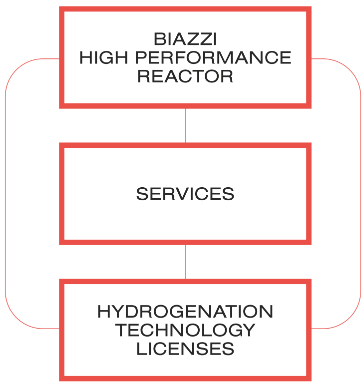
Laboratory tests can be performed in BIAZZI's R&D facilities using specific raw material to **guarantee product specifications at industrial scale**.

If necessary, a simple distillation can be added to the process to obtain tetrahydrofurfuryl alcohol with **purity of >99.9%**.

BIAZZI occupies a **leading position in the hydrogenation and gas-liquid reaction field**.

Hydrogenation is a critical process used in various industries to add hydrogen to organic compounds, improving product stability, performance, and usability.

BIAZZI excels in providing comprehensive solutions for hydrogenation plant processes, ensuring safety, efficiency, and high performance across diverse applications.



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