

# γ-Butyrolactone

(GBL)

CAS No. 96-48-0

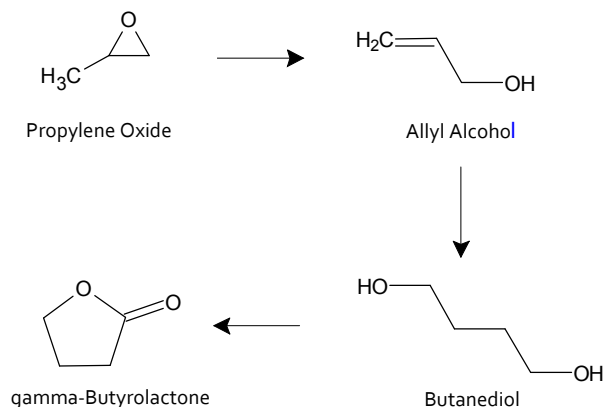
## Description

γ-Butyrolactone (GBL) is a colorless, high boiling, low odor liquid and a good solvent. It is soluble in alcohols, aromatic hydrocarbons, esters, ethers, ketones and water, and only partially miscible with aliphatic hydrocarbons. GBL is slightly hygroscopic.

## Typical Properties

•Boiling Point (@ 101.3 kPa)	-204°C
•Freezing Point	-43°C
•Flash Point	106°C
•Specific Gravity (20/4°C)	1.13
•Molecular Weight	86.09

GBL is produced by Lyondell Chemical Company in a proprietary, multi-step process from propylene oxide.



Its high boiling point and low volatility make GBL a good solvent candidate for consumer products, polymers and agrochemicals. GBL is also a useful intermediate in the manufacture of N-methyl-2-pyrrolidone and other pyrrolidone derivatives.

## Applications

GBL is not intended for human consumption or in a direct consumer product or application as either a pure substance nor as a component of a mixture.

### Textiles:

GBL is used as a spinning and coagulating solvent for polyacrylonitrile, as a surface treatment for textile fibers and as an intermediate for dyes and textile assistants.

### Agricultural Uses:

GBL is used as a carrier solvent and as a chemical intermediate in agricultural formulations.

