

# Isobutanol production by genetically modified organisms

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Isobutanol is a high-energetic alcohol with a promising potential in the fuel industry.

Despite the fact that ethanol is still by far the most used liquid biofuel, isobutanol presents several advantages compared to it. Isobutanol can be naturally produced by some yeasts in the mitochondria from L-valine or from its precursors. Metabolic engineering techniques have been performed in order to improve this biosynthetic route or to introduce it into other microorganisms.

