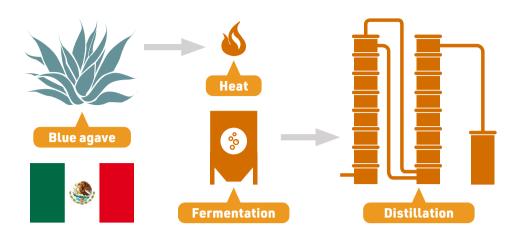
The Chemistry of Tequila

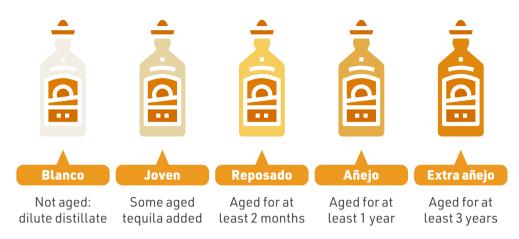


How is tequila made?



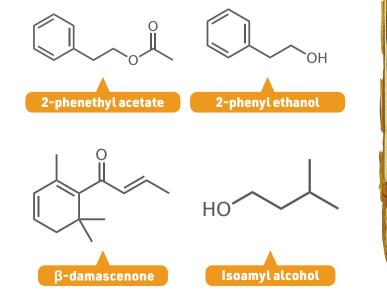
Tequila is made in selected states in Mexico from blue agave. The heart of the plant is heated to break down polysaccharides into sugars. These sugars are extracted and fermented with yeast. The resulting mixture is then distilled and diluted.

Different types of tequila

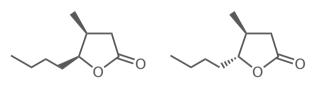


There are five recognised types of tequila. Blanco tequila is the diluted distillate, while joven tequila is blanco with a small amount of aged tequila (or colour and flavour) added. The other types are aged in oak barrels for varying lengths of time.

Blanco tequilas Aged tequilas Hundreds of compounds have been Many of the compounds found in blanco identified in tequila. Some terpene tequilas also contribute to flavour in aged compounds, such as those shown below, tequilas. However, additional compounds originate from the agave. from the oak wood in which the tequila is aged are important flavour contributors. **Ageing reactions Lignin hydrolysis Oxidation reactions** a-terpineol Linalool OH Many other compounds that contribute to tequila flavour are formed during fermentation or distillation. Some OCH: OCH₃ compounds that make important contributions are highlighted below. Vanillin Eugenol OH OH OCH₃ OCH₃ Ethyl hexanoate **Ethyl octanoate** 5**:(O)1**(1(1(1)







Guaiacol

4-ethyl guaiacol



The above compounds are formed as the lignin in the wood breaks down and further oxidation reactions occur. Many of them are also found in other barrel-aged alcohols.

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