



# Fumaric Acid

Pure fumaric acid (E297) for the inhibition of malolactic fermentation in wines.



## PRODUCT CHARACTERISTICS

- ◆ **Formulation:** pure fumaric acid.
- ◆ **oenological benefits:** strong inhibitor of malolactic fermentation (MLF) in wines. Fumaric acid controls the growth and activity of lactic acid bacteria. When added to wines, it prevents the onset of malolactic fermentation and can stop MLF in progress. It thus allows the preservation of malic acid and contributes to reducing SO<sub>2</sub> levels as part of an action to reduce inputs, or to produce wines without sulphites.

**Precautionary measures for use:** Fumaric acid is a molecule that plays a major role in the Krebs cycle. The yeast is indeed able to use it as a growing substrate and thus consume it. To avoid this and to preserve its inhibiting effect on MLF, its use is unallowed during alcoholic fermentation.

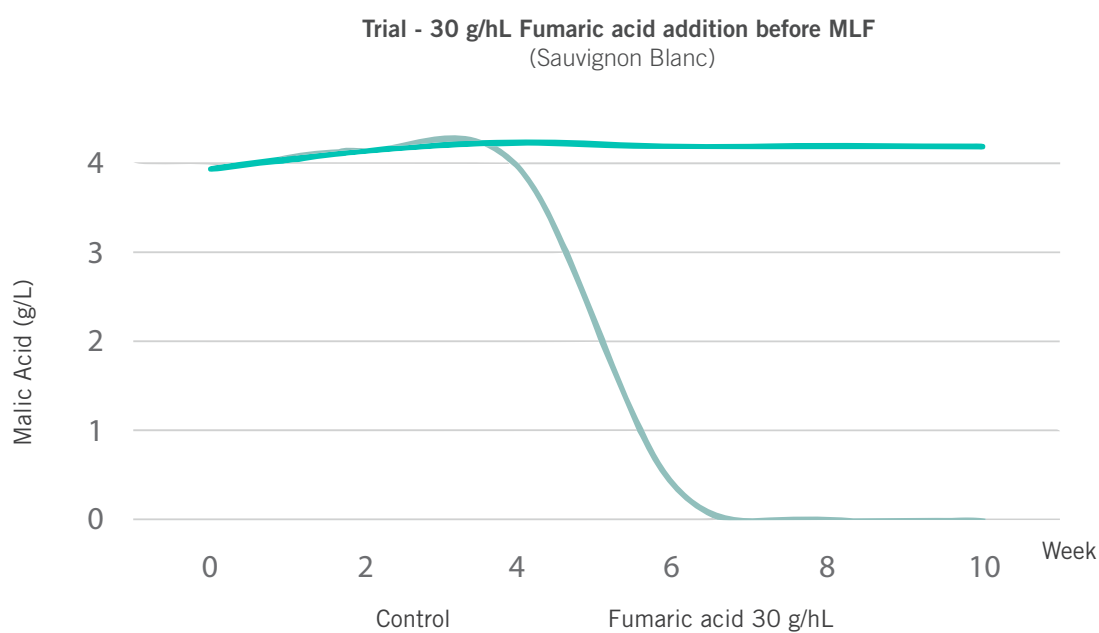


## DIRECTIONS FOR USE

- ◆ Dissolve in 20 times its weight in wine and incorporate homogeneously in a stirring tank. For optimal dissolution, we recommend keeping the wine at a stable temperature above 10°C during the treatment. Use before the last filtration step.
- ◆ **Recommended dosage:** 30 à 60 g/hL



## TRIAL RESULTS



The addition of 30 g/hL of fumaric acid to an unsulphited wine inhibited MLF for 10 weeks, while the control completed MLF in 6 weeks.



## SPECIFICATIONS

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### PHYSICAL

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- **Appearance & colour:** White granulated powder
- **Water solubility:** 4,9 g/L à 20°C

### CHEMICAL ANALYSIS

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- **Purity:** > 99,5 %
- **Ashes:** < 0,01 %
- **Lead:** < 2 ppm
- **Arsenic :** < 3 ppm
- **Iron:** < 10 ppm
- **Mercury:** < 1 ppm



## PACKAGING & CONSERVATION

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- Bags of 5 kg (in 10 kg box) and 25 Kg.
- Store in its original, hermetically sealed packaging in a cool, clean, dry and odour-free place. Respect the optimal date of use written on the packaging. Use quickly after opening.



GD/05-07-2022. For oenological use. This document is correct at the time of publication and is provided for information purposes only, without commitment or guarantee. This product should be used in accordance with the relevant legislation and standards. In accordance with the EU Regulation n°2019/934 (and its modifications).

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