

PAA: A Perfect Pairing for Winemaking

Fine wine requires rigorous attention to sanitation and disinfection. From the vine to the bottle, keeping products safe from contaminants is critical for product quality, brand reputation, and consumer confidence.

Discover how Peracetic Acid (PAA) is used at every stage of viticulture and winemaking processes and how it can safeguard wine production, solving the sanitation and disinfection challenges vintners face to deliver a delicious glass of wine.

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FAQ'S

PAA: A Perfect Pairing for Winemaking

From the vine to the bottle, PAA ensures proper sanitation processes are met for wine safety, consistency, and quality.

PERACETIC ACID (PAA): YOUR SAFEGUARD FOR WINEMAKING



- A colorless liquid formed by the mixture of acetic acid and hydrogen peroxide
- Allowed by the National Organic Program (NOP) as a disinfectant
- Effective as an antimicrobial at broad temperature (between 0-40°C) and pH (between 3.0-7.5 [Orr]) ranges

Irrigation Management

Drip irrigation systems used in vitiviniculture save water, reduce the potential for groundwater pollution, improve water use efficiency, and reduce disease.

Challenges:

- Natural groundwater contaminants from the aquifer, sand, and silt; organic biosolids such as algae, bacteria, and slime; dissolved metal solids such as iron, sulfur, and calcium

- pH level of the water
- Salt loading
- Water conservation

80%
of California winegrape vineyards use drip systems for irrigation (Ohmart, C.P.)

Solutions:

Peracetic Acid (PAA)

- Prevents slime, bioscale, bacteria, and algae from lowering drip or spray irrigation performance
- Doesn't contribute to wastewater TDS or total salt levels
- Makes it possible to irrigate crops with recycled wastewater, saving water for growers

Soil & Vine Management

- PAA can be used as a soil treatment
- PAA prevents and controls bacteria, fungi, and powdery mildew

Harvest/Post-Harvest

Post-harvest diseases can cause up to **40%** product loss (Journal of Wine Research)

Challenges:

- Ability to kill microbes and sanitize surfaces "on contact"

Solutions:

Peracetic Acid (PAA) is:

- A post-harvest cleaning and sanitizing wash that inhibits mildew and spoilage

- A general sanitizer for grape storage, transport, and packing areas

- A microbial growth inhibitor that minimizes contaminants
- Harmless to human consumption (Orth 1998), and breaks down to form acetic acid, oxygen, and water (Kramer 1997)
- A "water-keeper," it eliminates citric acid rinse, saving hundreds of thousands of gallons of water annually

Wine Production

Challenges:

- Complex biofouling, cross contaminations

Biocontaminants that cause spoilage in wine production include:

- Yeasts
- Acetic bacteria
- Lactic bacteria
- *Brettanomyces* spp

Solutions:

Peracetic Acid (PAA)

- Adds no measurable acetic acid to wines
- Environmentally friendly, breaks down to acetic acid, water, and oxygen

- Is a powerful oxidizer for cleaning fermentation vessels with no rinse required

- Is an ideal sanitizer for bottles, equipment, and production premises

- Is an effective CIP cleaner and sanitizer for tanks, pumps, lines and filters

Our Peracetic Acid (PAA) Formulations:

- Meet necessary safety regulations

- Release Zero Liquid Discharge — enabling wastewater reuse

- Addresses environmental concerns to create a delicious and eco-friendly glass of wine
- Won't form trichloroanisole (TCA, "cork taint") due to its non-chlorinated formulation
- Won't add salinity to process water like bleach

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Sources: Penn State Horticulture and Extension | Heritage Systems, 2005. Advantages of Using Peroxyacetic Acid (PAA) in Winery Sanitation Operations | Kramer JF, 1997. Peracetic acid: A new biocide for industrial water applications. Materials Performance, 36 (8):42-50 | Elsevier (Orth R.), 1996. International Biodeterioration & Biodegradation, 41:201-208 | Journal of Wine Research, 2016 | Infowine [Libretti/Libretti 7855-01-11] | Ewinelab [Civ] PAA | Ohmart, C.P. 2011.

DOWNLOAD THE PAA WINEMAKING INFOGRAPHIC

LEARN MORE ABOUT PAA FOR WINERIES

PERACETIC ACID PRODUCTS

Peracetic acid is an ideal antimicrobial agent due to its high oxidizing potential. It is highly effective against a broad range of microorganisms.

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STABILIZED BROMINE PRODUCTS

BromMax is produced using a novel process that both eliminates bromate ion formation and also reduces the creation of inert salts to keep conductivity low in the receiving water.

VISIT SITE

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Enviro Tech and Arxada food safety products featured in booth #433 May 4, 2022 – Modesto, Calif. – specialty chemical manufacturer Enviro Tech Chemical Services (ETCS) – an Arxada company – is showcasing the world's first and only dry peracetic acid (PAA) floor and equipment sanitizer at the Food Safety Summit, May 10-12, 2022 in Chicago.

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