



AP PERA-5 (Antimicrobial Solution)

EPA Number: 63838-1-83106

Applications	Food grade sanitizer used in the dairy, food and beverage processing industry for CIP pipeline cleaning, sanitizing, bottle and filler sanitizing, and disinfection. It is also used in the treatment of cooling water, process and wastewater. Additional uses are for slime and biofouling control, sulfite and odor reduction, and for cleaning UF and RO membranes. Peroxyacetic acid solutions are also used for disinfection in human and veterinary applications including hospitals.												
Properties	AP PERA-5 has a high oxidation potential and is very reactive. It exhibits excellent bactericidal and fungicidal activity against a wide range of microorganisms in cold or warm water. Product is stable for a minimum of 1 year under normal conditions. It ultimately degrades to oxygen, water, and acetic acid (vinegar).												
Chemical Composition	AP PERA-5 is an equilibrium mixture of peracetic acid, hydrogen peroxide, acetic acid, proprietary ingredients, and water. <table><tr><td>Peracetic acid (% wt.)</td><td>5.5-5.9</td></tr><tr><td>H₂O₂ (% wt.)</td><td>25.0-27.4</td></tr><tr><td>Acetic acid (% wt.)</td><td>7-8</td></tr></table>	Peracetic acid (% wt.)	5.5-5.9	H ₂ O ₂ (% wt.)	25.0-27.4	Acetic acid (% wt.)	7-8						
Peracetic acid (% wt.)	5.5-5.9												
H ₂ O ₂ (% wt.)	25.0-27.4												
Acetic acid (% wt.)	7-8												
Physical Properties	<table><tr><td>Density 20°C (68°F), (g/ml)</td><td>1.12</td></tr><tr><td>Vapor Pressure 20°C (68°F), (mbar)</td><td>27</td></tr><tr><td>pH 10% solution, 20°C (68 °F)</td><td>1.8</td></tr><tr><td>pH 1% solution, 20°C (68 °F)</td><td>2.8</td></tr><tr><td>Flash Point (DIN 51584)</td><td>> 98° C (207° F)</td></tr><tr><td>Freezing Point</td><td>< -12° C (10° F)</td></tr></table>	Density 20°C (68°F), (g/ml)	1.12	Vapor Pressure 20°C (68°F), (mbar)	27	pH 10% solution, 20°C (68 °F)	1.8	pH 1% solution, 20°C (68 °F)	2.8	Flash Point (DIN 51584)	> 98° C (207° F)	Freezing Point	< -12° C (10° F)
Density 20°C (68°F), (g/ml)	1.12												
Vapor Pressure 20°C (68°F), (mbar)	27												
pH 10% solution, 20°C (68 °F)	1.8												
pH 1% solution, 20°C (68 °F)	2.8												
Flash Point (DIN 51584)	> 98° C (207° F)												
Freezing Point	< -12° C (10° F)												
Appearance	Clear, colorless liquid (pungent vinegar-like odor)												
Storage	<u>The AP PERA-5 container must be stored in an upright position.</u> The storage area should be well ventilated and <u>shaded from sunlight</u> as well as protected from sources of radiant heat. Contamination of the product, especially heavy metal ions and alkali, must be avoided.												
Shelf Life	At least one year without notable loss of active oxygen if stored properly.												
Packaging	5 gal (45 lb), 53 gal (500 lb), 220 gal (2050 lb), 300 gal (2800 lb). Available in HDPE plastic pails, drums, and totes.												
Transport (DOT)	Oxidizing liquid, corrosive, n.o.s. (contains hydrogen peroxide and peroxyacetic acid mixture, stabilized), 5.1 (8), UN 3098, PG II												

Algonquin Products Co. 29 Russells Mills Rd., Dartmouth, MA 02748

All information and statements contained herein are believed to be accurate at the time of publication, but Algonquin Products Co. makes no warranty with respect thereto, including but not limited to any results to be obtained or the infringement of any proprietary rights. Use or application of such information or statements is at user's sole discretion, without any liability on the part of Algonquin Products Co.. Nothing herein shall be construed as a license of or recommendation for use which infringes upon any proprietary rights. Use of this product shall be the sole responsibility of user, and Algonquin Products Co. shall not be liable in any way for said use, other than reimbursement for the actual cost of product.