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Active Oxidants Division
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VigorOx™ Antimicrobial Agent 5%

An equilibrium solution of hydrogen peroxide and peracetic acid

CAS No. 79-21-0

EPA Registration No. 65402-2

Formula	CH ₃ COOOH	MW 76 g/mole
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Synonyms	Peroxyacetic acid, acetyl hydroperoxide, ethaneperoxoic acid
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Typical Composition by Weight Percent

	Nominal	Certified Limits
Peracetic acid, %	5	4.7 - 5.6
Hydrogen peroxide, %	22	19.7 - 23.9
Acetic acid, %	10	
Water (free), %	63	

Chemical Properties

pH, 1% solution	2.8
Total active oxygen, %	11.5
active oxygen as peracid, %	1.1
active oxygen as H ₂ O ₂ , %	10.4
Other organics	Non detectable
Iron	<0.5 ppm

Physical Properties

Melting point	-26°C (-15°F)
Boiling point	99°C (210°F)
Vapor pressure	20mm Hg @ 25°C (77°F)
Appearance	Colorless liquid
Odor	Sharp, pungent, vinegar-like
Specific gravity	1.103 g/mL @ 20°C (68°F)
Solubility in water	100%
Flashpoint	83°C (182°F)
Autoignition temperature	270°C (518°F)

Shipment Information DOT Classification - 5.1 (Oxidizer) Subsidiary: 8 (Corrosive)

495 lb - 55 gallon drum; 250 lb - 30 gallon drum; 45 lb - 5 gallon carboy

Uses

Antimicrobial agent for biofouling and slime control (e.g. pulp and paper mill systems, cooling water systems)

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