

VigorOx[®] 15 F&V

An equilibrium solution of hydrogen peroxide and peracetic acid

CAS No. 79-21-0

Formula	CH ₃ COOOH	MW 76 g/mole
Synonyms	Peroxyacetic acid, acetyl hydroperoxide, ethaneperoxoic acid	

Typical Composition by Weight Percent

	Nominal
Peracetic acid, %	15 (min)
Hydrogen peroxide, %	10
Acetic acid, %	35
Sulfuric acid, %	0
Water (free), %	39
Stabilizer, %	<1.0

Chemical Properties

pH, 1% solution	2.8
Total active oxygen, %	7.9
active oxygen as peracid, %	3.2
active oxygen as H ₂ O ₂ , %	4.7
Other organics	Non detectable
Iron	<0.5 ppm

Physical Properties

Melting point	-49°C (-56°F)
Boiling point	109°C (228°F)
Vapor pressure	22mm Hg @ 25°C (77°F)
Appearance	Colorless liquid
Odor	Sharp, pungent, vinegar-like
Specific gravity	1.13 g/mL @ 20°C (68°F)
Solubility in water	100%
Flashpoint (closed cup)	80°C (175°F)
Autoignition temperature	305°C (581°F)

Shipment Information DOT Classification - Organic Peroxide, Type F, Liquid, UN3109, Primary Hazard Class 5.2, Subsidiary: 8 (Corrosive) 495 lb - 55 gallon drum; 250 lb - 30 gallon drum; 45 lb - 5 gallon carboy

Uses

Antimicrobial agent for raw agricultural commodities.

This information contained herein is, to our knowledge, true and accurate. Because conditions of use are beyond our control, we make no warranty or representation, expressed or implied, except that the products discussed herein conform to the chemical descriptions shown on their labels. Nothing contained herein should be construed as permission or recommendation to infringe any patent. No agent, representative or employee of this company is authorized to vary any of the terms of this notice.

FMC Corporation Active Oxidants Division 1735 Market Street Philadelphia Pennsylvania 19103