

Technical Data

CLARITY™

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 achieving commercial sterility of food packaging prior to fill.

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