

Technical Data

Peracetic Acid 15%

An equilibrium solution of hydrogen peroxide and peracetic acid

CAS No. 79-21-0

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
Peracetic acid, %	15 (min)
Hydrogen peroxide, %	23
Acetic acid, %	16
Sulfuric acid, %	1
Water (free), %	45
Stabilizer, %	<0.1

Chemical Properties

pH, 1% solution	2.8
Total active oxygen, %	14.3
active oxygen as peracid, %	3.3
active oxygen as H ₂ O ₂ , %	11.8
Other organics	Non detectable
Iron	<0.5 ppm

Physical Properties

Melting point	-49°C (-56°F)
Boiling point	108°C (226.4°F)
Vapor pressure	20mm Hg @ 25°C (77°F)
Appearance	Colorless liquid
Odor	Sharp, pungent, vinegar-like
Specific gravity	1.15 g/mL @ 20°C (68°F)
Solubility in water	100%
Flashpoint	68°C (155°F)
Autoignition temperature	270°C (518°F)

Shipment Information DOT Classification - 5.2 (Organic Peroxide) Subsidiary: 8 (Corrosive)
495 lb - 55 gallon drum; 250 lb - 30 gallon drum; 45 lb - 5 gallon carboy

Uses

I&I bleach, chemical synthesis (e.g. epoxidation)

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