

FMC Corporation
Active Oxidants Division
1735 Market Street
Philadelphia, Pennsylvania 19103
Phone: (215) 299-6000



Peracetic Acid 35%

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, %	35 (min)
Hydrogen peroxide, %	7
Acetic acid, %	39
Sulfuric acid, %	1
Water (free), %	18
Stabilizer, %	<0.1

Chemical Properties

pH, 1% solution	2.5
Total active oxygen, %	10.7
active oxygen as peracid, %	7.4
active oxygen as H ₂ O ₂ , %	3.3
Other organics	Non detectable
Iron	<0.5 ppm

Physical Properties

Melting point	-44°C (-47°F)
Boiling point	107°C (225°F)
Vapor pressure	20mm 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	46°C (115°F)
Autoignition temperature	218°C (424°F)

Shipment Information DOT Classification - 5.2 (Organic Peroxide) Subsidiary: 8 (Corrosive), 3 (Flammable)

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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