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

# Peracetic Acid 5%

**An equilibrium solution of hydrogen peroxide and peracetic acid**

**CAS No. 79-21-0**

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**Formula** $CH_3COOOH$ 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, % | 5 |
| Hydrogen peroxide, % | 22 |
| Acetic acid, % | 10 |
| Water (free), % | 63 |

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**Chemical Properties**

| | |
|---|---|
| pH, 1% solution | 2.8 |
| Total active oxygen, % | 11.5 |
| active oxygen as peracid, % | 1.1 |
| active oxygen as $H_2O_2$, % | 10.4 |
| Other organics | Non detectable |
| Iron | <0.5 ppm |

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**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) |

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**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

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**Uses**

I&I bleach and chemical synthesis

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