

## PRODUCT SPECIFICATION SHEET

### Peracetic Acid, 15% Peracetic Acid Solution, 15%

**Applications** Peracetic Acid 15% is a broad-spectrum microbiocide used for the control of bacteria, bacterial spores, fungi, and yeast. The product can be used in a wide range of industrial applications, including:

- No-rinse sanitizer on food and beverage processing equipment;
- General purpose hard surface disinfectant;
- Bacteria, fungi, and slime (deposit) control in water treatment applications.

Peracetic Acid 15% has been developed for water treatment applications, including:

- Pulp and paper mill systems
- Dispersed pigments and coatings preservation
- Cooling water systems

**Formula**  $\text{CH}_3\text{CO}_3\text{H}$  MW = 76.05 g/mol CAS number 79-21-0

**Synonyms** Ethaneperoxoic acid, peroxyacetic acid, acetyl hydroperoxide

**Chemical Properties** Peracetic Acid 15% is a stabilized equilibrium mixture of peracetic acid, hydrogen peroxide, acetic acid and water. It is miscible in water and organic solvents. Peracetic acid rapidly decomposes in the natural environment leaving no harmful decomposition products.

Test	Specification	Typical Result
Peracetic Acid, wt. %	15.0	14.3 – 15.8
Hydrogen Peroxide, wt. %	22.0	21.3 – 22.7
Acetic Acid, wt. %	16.0	
Water, wt. %	46.0	
Total Active Oxygen, wt. %	13.7	
Density 20°C (68 °F), g/ml	1.148	
Vapor Pressure 20 °C (68 °F), mbar	25	
pH (100 g/L H <sub>2</sub> O) 20 °C (68 °F)	2	
Flash Point, °C (°F) DIN 51584	96 (205)	
Freezing Point, °C (°F)	-50 (-46)	
Boiling Point, °C (°F)	109 (228)	
Appearance	Clear	
Odor	Vinegar-like	

**Storage** Peracetic acid containers must be stored in an upright position. The storage area should be well ventilated and shaded from sunlight, as well as protected from sources of radiant heat. Contamination of the product, especially by metals and alkali, must be avoided.

**Shelf Life** At least 12 months without notable loss of active oxygen content if stored properly.

**Packaging**

- 5 gallon (nominal) carboy contains 40 lb (18 kg) approximately 4.1 gallons (15.7 l)
- 55 gal (nominal) HDPE plastic drum 485 lb (220 kg) approximately 51 gallons (191 l)
- 275 gal (nominal) IBC 2425 lb (1100 kg) approximately 252 gallons (957 l)

**Transport** DOT Hazard Class 5.2 (org. peroxide) Type F, Corrosive; UN No. 3109, Packing Group II

**FDA Regulatory Status** Peracetic Acid 15% conforms to the FDA standards as outlined in 21CFR §178.1010