



Hydrogen Peroxide - Standard Grade

CAS NO 7722-84-1

Introduction

Standard Grade hydrogen peroxide is formulated with an inorganic tin-based stabilizer system for high stability and long-term storage. The 70% concentration can be diluted to 35% or 50% concentration with most ordinary tap water found in North America. This permits a customer to achieve maximum economy by purchasing hydrogen peroxide at 70% concentration and diluting it to 35% or 50% for storage. This hydrogen peroxide product is suitable for storage at 70% concentration if desired. Product diluted and drummed at FMC locations meets the stringent assay and stability specifications below.

Standard Grade Hydrogen Peroxide is used extensively for pulp, textile, and environmental applications. It is the most suitable grade available for industrial purposes and should be used whenever possible.

Specifications

	35%	50%	70%
H ₂ O ₂ content, % by weight			
Product diluted at FMC sites	35.0-35.8	50.0-50.8	70.0-70.8
Stability, 24 hours @ 100° C	>96.0%	>96.0%	>96.0%

Typical Properties

	35%	50%	70%
Loss in % assay, 1 yr, 25° C	<0.7	<1.0	<1.4
Apparent pH	<3.7	<3.0	0-1.0
Sn, ppm	25-35	36-50	50-70
Active oxygen content, %	16.5	23.5	32.9
Specific gravity (20° C/4° C)	1.13	1.20	1.29
Lbs/gal (kg/M ³ or g/L) @ 20° C	9.4(1126)	10.0(1198)	10.8(1294)
Boiling point, ° C (° F)	108(226)	114(237)	126(259)
Freezing point, ° C (° F)	-33(-27)	-52(-62)	-40(-40)

Standard Containers

Polyethylene drums: 15 gallon (56.8 liter), 30 gallon (113.6 liter), 55 gallon (208.2 liter).

Bulk shipments are available in tank trucks and tank cars.

Hydrogen peroxide above 8% concentration is classified as an "Oxidizer" by the Department of Transportation and all containers must carry the yellow DOT label.