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Hydrogen peroxide

Synonyms & Trade Names High-strength hydrogen peroxide, Hydrogen dioxide, Hydrogen peroxide (aqueous), Hydroperoxide, Peroxide

CAS No. 7722-84-1

RTECS No. MX0900000
([/niosh-rtecs/MXDBBA0.html](http://www.niosh-rtecs.com/MXDBBA0.html))

DOT ID & Guide 2984 140 (<http://www.wapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx/guide140/>) [Ⓔ](http://www.cdc.gov/Other/disclaimer.html) (8-20% solution)
2014 140 (<http://www.wapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx/guide140/>) [Ⓔ](http://www.cdc.gov/Other/disclaimer.html) (20-60% solution)
2015 143 (<http://www.wapps.tc.gc.ca/saf-sec-sur/3/erg-gmu/erg/guidepage.aspx/guide143/>) [Ⓔ](http://www.cdc.gov/Other/disclaimer.html) (>60% solution)

Formula H₂O₂

Conversion 1 ppm = 1.39 mg/m³

IDLH 75 ppm
See: 772841 ([/niosh/IDLH/772841.html](http://www.niosh.gov/IDLH/772841.html))

Exposure Limits NIOSH REL :
TWA 1 ppm (1.4 mg/m³)
OSHA PEL : TWA 1 ppm (1.4 mg/m³)

Measurement Methods
OSHA ID126SG
<http://www.osha.gov/dts/sltc/methods/partial/t-id126sg-pv-01-0201-m/t-id126sg-pv-01-0201-m.html> [Ⓔ](http://www.cdc.gov/Other/disclaimer.html)
See: NMAM ([/niosh/docs/2003-154/](http://www.niosh.gov/docs/2003-154/)) or **OSHA Methods**
<http://www.osha.gov/dts/sltc/methods/index.html> [Ⓔ](http://www.cdc.gov/Other/disclaimer.html)

Physical Description Colorless liquid with a slightly sharp odor. [Note: The pure compound is a crystalline solid below 12°F. Often used in an aqueous solution.]

MW: 34.0	BP: 286°F	FRZ: 12°F	Sol: Miscible	VP(86°F): 5 mmHg	IP: 10.54 eV
Sp.Gr: 1.39	Fl.P: NA	UEL: NA	LEL: NA		

Noncombustible Liquid, but a powerful oxidizer.