

Glove Selection Guide

Chemical	Recommended Gloves	Comments
Acetic acid	Nitrile, Neoprene	
Acetone	Latex, double glove	
Acetonitrile	Nitrile, double glove	
Acrylamide	Nitrile	
Ammonium Hydroxide	Nitrile	
Benzene	ChemTek, Viton, Silver Shield	
Butanol	Latex, Nitrile	
Buffers	Latex, Nitrile	
Carbon Disulfide	Nitrile	
Carbon Tetrachloride	ChemTek, Viton, Silver Shield	Probable Human Carcinogen.
Chemotherapy Drugs	Latex or Nitrile, double glove	
Chloroform	ChemTek, Viton, Silver Shield	
Cidex	Latex, Nitrile, Neoprene	
Clear Rite	Nitrile	
Cryogenic Liquids	Cryogenic Gloves	
Cyclohexane	Nitrile	
Dimethyl Formamide	Neoprene, Latex	
Dimethyl Sulfoxide	Nitrile	
1,4-Dioxane	Butyl, Silver Shield	Mutagen and probable carcinogen.
Ethanolamine	Nitrile	
Ethidium Bromide (10%)	Nitrile, Neoprene	
Ethyl Acetate	Latex, double glove	Butyl, Silver Shield are recommended for heavy use.
Ethanol	Nitrile, Neoprene	
Ethyl Ether	Nitrile	
Formaldehyde (37%)	Nitrile, Neoprene, Latex	
Formic Acid	Nitrile, Latex	
Glutaraldehyde (<5%)	Latex, Nitrile	
Guanidine Solutions	Latex, double glove	
Heptanes	Nitrile	
Hexane	Nitrile	
Hydrochloric acid	Nitrile, Neoprene, Latex	
Hydrogen peroxide (2 – 30%)	Nitrile, Neoprene	
Isopropanol (2-propanol)	Nitrile, Latex	
2-Mercaptoethanol	Nitrile	
Mercury, Inorganic	Nitrile, Latex	
Methanol	Nitrile, Neoprene	
Methylene Chloride	ChemTek, Viton, Silver Shield	Cal-OSHA regulated carcinogen.
Nitric Acid	Nitrile	
Osmium Tetroxide	Nitrile, double glove	
Perchloric Acid (70%)	Nitrile	
Phenol	Nitrile, Neoprene	
Phenol/Chloroform/Amyl Alcohol	ChemTek, Viton, Silver Shield	
Phosphoric acid	Nitrile, Latex	
Sodium Hydroxide	Nitrile, Neoprene, Latex	
Sulfuric Acid (50%)	Nitrile, Latex	
Sulfuric Acid (98%)	ChemTek, Butyl, Silver Shield	
TEMED	Nitrile, double glove	
Tetrahydrofuran	Silver Shield, ChemTek	
Trichloroacetic Acid	Nitrile, Viton	
Trifluoroacetic Acid	Neoprene, Silver Shield	
Xylene	Nitrile, double glove	ChemTek, Silver Shield recommended for heavy use.

Ansell 8 mil ChemTek gloves are available from Fisher Safety at www.fishersafety.com. Nitrile, latex, neoprene, butyl, and North Safety Silver Shield/4H gloves are available from Fisher Scientific at www.fishersci.com and VWR at www.vwr.com

Glove recommendations are based on information from the glove manufacturers Ansell Healthcare, Best Manufacturing, North Safety, and Kimberley Clark, and on the *Quick Selection Guide to Chemical Protective Clothing, 5th Edition*.