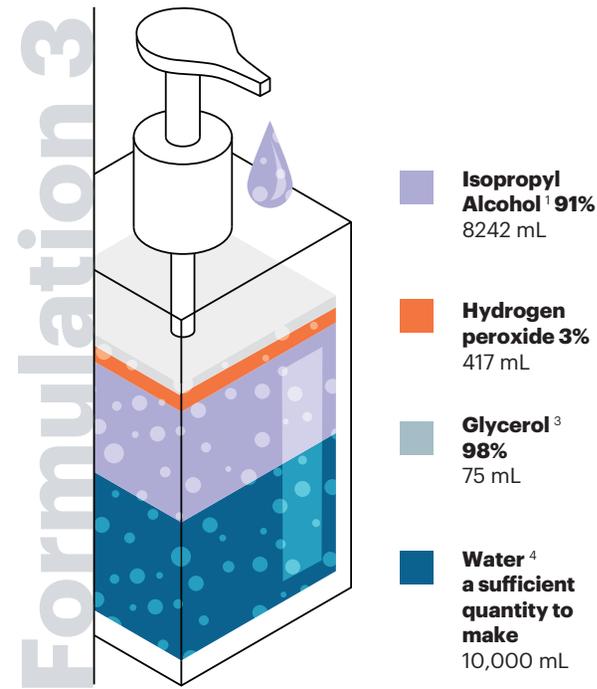
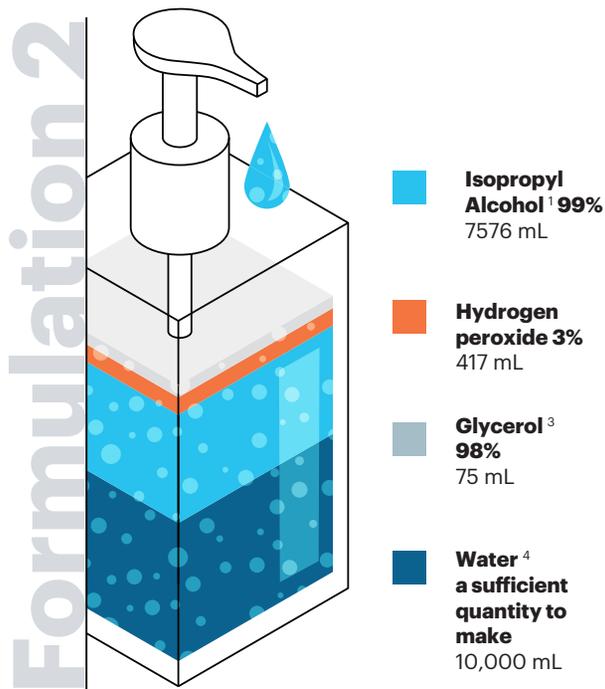
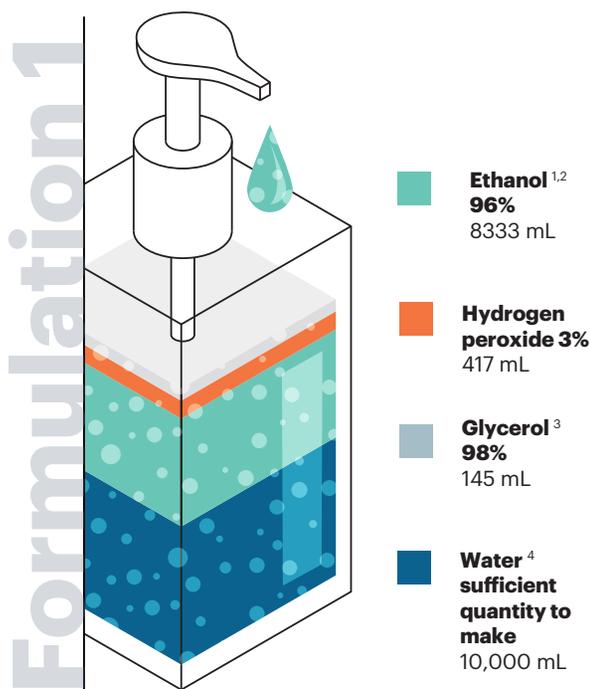


Compounding Alcohol-Based Hand Sanitizer During COVID-19 Pandemic

Demand for alcohol-based hand sanitizers has surpassed its supply due to the rapidly evolving COVID-19 pandemic. In response, the U.S. Pharmacopeia has provided an informational resource document on compounding hand sanitizer to help address the shortages. Please visit usp.org/compounding for more info.*



¹ When the concentration of alcohol in the starting ingredient is not exact, follow the calculation on the USP hand sanitizer resource document to ensure a final concentration of at least 80% ethanol or 75% isopropyl alcohol.

² It is recommended to use denatured ethanol instead of nondenatured ethanol because there have been reports of adverse events, including deaths, from unintentional ingestion of hand sanitizer, particularly in young children. If it is not denatured, package in a child-resistant container.

³ Glycerin and glycerol are synonymous and may be interchangeable. Glycerin and glycerol are added as humectants.

⁴ Water may be distilled, cold boiled potable, reverse osmosis, or filtered.



Packaging and Storage:

Package in well-closed, suitable containers and store at controlled room temperature.



Labeling: Label it to state for external use only, the percentage of active ingredient (i.e., ethanol, isopropyl alcohol), and the *Beyond-Use Date*.



Beyond-Use Date: NMT 30 days after the date on which it was compounded when stored at controlled room temperature.

* This infographic is for informational purposes for healthcare practitioners and scientific professionals, and is intended to help address shortages of alcohol-based hand sanitizers associated with the COVID-19 pandemic. Parties relying on the information in this document bear independent responsibility for awareness of, and compliance with, any applicable federal, state, or local laws and requirements. The pictures are conceptual and do not reflect the order of mixing. The final preparation must be mixed well. Download and follow the **Compounding Alcohol-Based Hand Sanitizer During COVID-19 Pandemic recommendations at usp.org/compounding**.