Rubbing Alcohol Dilution Chart

How much alcohol and water to mix for a 70% or 60% cleaning solution · built 3 Nov 2026 · atozalcohol.com

How to read this chart. The CDC says the best germ-killing strength for alcohol is 60% to 90% in water (by volume). Amounts use C1 x V1 = C2 x V2: alcohol ml = total ml x target % / bottle %. Alcohol and water shrink a little when mixed, so the total is slightly less than shown. For cleaning surfaces only: never drink rubbing alcohol, keep it away from flames, children and pets.

Mixing table (alcohol + water = total)

Your bottle	Target	To make 100 ml	To make 250 ml	To make 500 ml	Source
99% bottle	70%	71 ml alcohol + 29 ml water	177 ml alcohol + 73 ml water	354 ml alcohol + 146 ml water	CDC: chemical disinfectants (alcohol), read 3 Nov 2026
99% bottle	60%	61 ml alcohol + 39 ml water	152 ml alcohol + 98 ml water	303 ml alcohol + 197 ml water	CDC: chemical disinfectants (alcohol), read 3 Nov 2026
91% bottle	70%	77 ml alcohol + 23 ml water	192 ml alcohol + 58 ml water	385 ml alcohol + 115 ml water	CDC: chemical disinfectants (alcohol), read 3 Nov 2026
91% bottle	60%	66 ml alcohol + 34 ml water	165 ml alcohol + 85 ml water	330 ml alcohol + 170 ml water	CDC: chemical disinfectants (alcohol), read 3 Nov 2026
70% bottle	60%	86 ml alcohol + 14 ml water	214 ml alcohol + 36 ml water	429 ml alcohol + 71 ml water	CDC: chemical disinfectants (alcohol), read 3 Nov 2026

Free calculators on atozalcohol.com/tools/: standard drinks, UK units, shots in a bottle, ABV to proof, calories, rubbing alcohol dilution.

Sources (web addresses)

CDC: chemical disinfectants (alcohol):
https://www.cdc.gov/infection-control/hcp/disinfection-sterilization/chemical-disinfectants.html