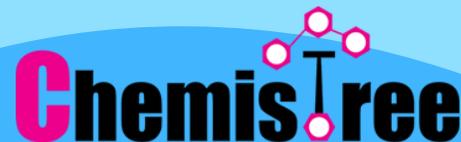


QUOTATION



20 Tuas Street Singapore 638 457

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www.chemistree.com.sg

Product Code	Product Description	Vol	Unit Price (SGD) (excl. 7% GST)
AS700/P1L/A01	ISOPROPYL ALCOHOL 70% (Ready to Use as Disinfectant)	1 Lt	\$ 11
AS700/P5L/A01		5 Lt	\$ 25
AS700/P20L/A01		20 Lt	\$ 85
IP001/P1L/S01	ISOPROPYL ALCOHOL >99% - 1 LT	1 Lt	\$ 12
IP001/P5L/S01		5 Lt	\$ 28
IP001/T18L/S01		18 Lt	\$ 90
ET095/P1L/F01	ETHANOL 95% (WITH 5% METHANOL)	1 Lt	\$ 19
ET095/P5L/F01		5 Lt	\$ 48
ET095/T18L/F01		18 Lt	\$ 90
ET099/P1L/A01	ETHANOL 99% (WITH 5% METHANOL)	1 Lt	\$ 20
ET099/P5L/A01		5 Lt	\$ 52
ET099/T18L/A01		18 Lt	\$ 100
ZZLAM/HS001-1L	Chemistree Hand Sanitizer (with alcohol)	1 Lt	\$ 13
		5 Lt	\$ 30
	Deionised Water	5 Lt	\$ 18

1. Applicable for **walk-in orders only** at the following address below:
Aik Moh Paints & Chemicals Pte Ltd
20 Tuas Street, Singapore 638457
Monday to Friday, **9am to 11am, 1.30pm to 4pm.**
2. Payment method: **Cash, PayNow.**
3. Price validity till 31st March 2020. Stock availability is prior to goods unsold.
4. Maximum of **20 LITRES** of flammable solvent allowed per purchase.



Frequently Asked Questions:

1. Why is alcohol (Isopropyl Alcohol or Ethanol) better for hand sanitizing purposes?

Ans: The way alcohol-based hand sanitizers work is basically by busting the cell wall of germs and thus killing them. The alcohol destroy microbes in a process called protein denaturation. The structure of the proteins in the microbial cell are altered in a way that the intermolecular forces between amino side chains are disrupted. Therefore, the proteins lose their functions leading to the death of the microbe. Compared with soap and water, sanitizers are a convenient alternative when you're on the go and can also be more effective

2. Why Is 70% Isopropyl Alcohol (IPA) a Better Disinfectant than 99% Isopropanol

Ans: Isopropyl alcohol, particularly in solutions between 60% and 90% alcohol with 10 – 40% purified water, is rapidly antimicrobial against bacteria, fungi, and viruses. Once alcohol concentrations drop below 50%, usefulness for disinfection drops sharply. Notably, higher concentrations of alcohol don't generate more desirable bactericidal, virucidal, or fungicidal properties.

The presence of water is a crucial factor in destroying or inhibiting the growth of pathogenic microorganisms with isopropyl alcohol. Water acts as a catalyst and plays a key role in denaturing the proteins of vegetative cell membranes. 70% IPA solutions penetrate the cell wall more completely which permeates the entire cell, coagulates all proteins, and therefore the microorganism dies. Extra water content slows evaporation, therefore increasing surface contact time and enhancing effectiveness. Isopropyl alcohol concentrations over 91% coagulate proteins instantly. Consequently, a protective layer is created which protects other proteins from further coagulation.

3. Is it possible to DIY your own Hand Sanitizer?

Ans: You only need one core ingredients for this – isopropyl alcohol or ethanol, the germ killer. You can add in essential oils to fragrance your hand sanitizer e.g tea tree oil or peppermint, others often will also add in vegetable gelatine or aloe vera gel (to keep your hands moisturized). For maximum protection, it is best to use straight alcohol so as to preserve the minimum alcohol content in the sanitizer of 60~70%.

Add all ingredients to the bottle and shake well before use. If your hands are too dry from the alcohol you can wait until all the alcohol evaporates from your hands then add your normal moisturiser.