

Preparations of disinfectants for hand hygiene

The preparations are developed by the Laboratory of the Dutch Pharmacists (LNA).

The LNA is an department within the facilities of the KNMP.

The KNMP is an Dutch abbreviation for the Royal Dutch Pharmacists Association.

The KNMP is founded in 1842 and is an organisation for pharmacists. The KNMP assists pharmacists in their daily practice and it contributes to maintaining quality in the pharmaceutical sector.

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HAND ALCOHOL, LIQUID

Declaration

Active ingredient: 647 mg ethanol resp. 700 mg isopropyl alcohol per gram

Pharmaceutical form: cutaneous solution

Excipients: glycerol 85%, purified water

Composition

A. With 95% denaturated alcohol

Denaturated alcohol 95%	70 g (= 86 ml)
Glycerol 85 per cent	1 g
Purified water	ad 100 g (= 114 ml)

B. With isopropylic alcohol

Isopropylic alcohol (isopropanol)	70 g (= 89 ml)
Glycerol 85 per cent	1 g
Purified water	ad 100 g (= 116 ml)

Preparation

1. Mix the denaturated alcohol or the isoproyl alcohol with the glycerol.
2. Add purified water to weight.
3. Mix and fill in the container.

Product protection

No special measures.

Packaging

Medicine bottle with pump atomizer or flip-top cap.

Storage

Unopened packaging:

- bottle, 6 months; below 25 ° C, do not freeze.

Within the above term, after opening:

- bottle, 3 months; below 25 ° C, do not freeze.

Labeling

Expiration date and usage period after opening.

Warning: highly flammable.

Use: for hand disinfection only

Quality requirements

Identity: complies with declared composition.

Assay: ethanol or isopropylic alcohol: 90-110% of the declared content, calculated as chemically pure substance.

Density with ethanol: 0.860 - 0.900

Density with isopropyl alcohol: 0.840 - 0.880

Appearance: clear solution with characteristic odor.

Microbiological purity: see Ph. Eur. chapter 5.1.4.

DISINFECTING GEL, VISCOUS

Declaration

Active ingredient: 684 mg ethanol resp. 740 mg isopropyl alcohol per gram

Pharmaceutical form: cutaneous gel

Excipients: carbomer 974P, glycerol 85%, trometamol, purified water

Composition

A. With 95% denaturated alcohol

Denaturated alcohol 95%		74 g (= 92 ml)
Carbomer 974P		1.6 g
Trometamol		400 mg
Glycerol 85%		1 g
Purified water	ad	100 g

B. With isopropyl alcohol

Isopropyl alcohol (isopropanol)		74 g (= 94 ml)
Carbomer 974P		1.6 g
Trometamol		400 mg
Glycerol 85%		1 g
Purified water	ad	100 g

Product protection

No special measures.

Preparation

1. Dissolve the trometamol in 10 ml of purified water.
2. Rub the carbomer into a smooth stone mortar.
3. Add the trometamol solution to the carbomer and mix to a homogeneous gel.
4. Add the denaturated alcohol or isopropyl alcohol in small portions and mix.
5. Add the glycerol and mix.
6. Add purified water to weight
7. Mix and fill in the container.

Packaging

Tube

Storage

Unopened packaging:

- tube, 6 months; below 25 ° C, do not freeze.

Within the above term, after opening:

- tube, 3 months; below 25 ° C, do not freeze.

Labeling

Expiration date and usage period after opening.

Warning: highly flammable.

Use: for hand disinfection only

Quality requirements

Identity: complies with declared composition.

Assay: ethanol or isopropyl alcohol: 90-110% of the declared content, calculated as chemically pure substance.

Appearance: clear or slightly opalescent, colorless gel with characteristic odor.

Microbiological purity: see Ph. Eur. chapter 5.1.4.