

# Technical Information

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**derypol**

C/ Plató 6, Entlo. 5º- 08021 Barcelona  
(Spain) Tel. (93) 238 90 91, Fax (93) 238  
90 91 [www.derypol.com](http://www.derypol.com)

## DER K11PF

**Product for cosmetic compositions**

### DESCRIPTION

**Diallyldimethylammonium chloride homopolymer in aqueous solution.**

This product uses sodium benzoate as preservative agent.

### CHARACTERISTICS

Appearance	: Colourless to yellowish transparent liquid
pH	: 3,0 – 5,0
Viscosity	: 10000 – 60000 cP
Solids	: 19,0 – 22,0 %
Residual	: <100 ppm Free NVP
Chemical name	: Quaternized copolymer of vinylpyrrolidone (VP) and dimethylaminoethylmethacrylate (DMAEMA)
INCI Name	: Polyquaternium-11
Shelf life	: We recommend not keeping the product for more than 12 months

*Note: The parameters indicated here are not necessarily the specifications of the product. These will be agreed with each customer and will be a part of the contract that must be respected for each batch supplied.*

### APPLICATION

- This product can be easily incorporated in formulations due to complete water solubility and is widely compatible with any kind of surfactants including anionic and amphoteric ones.
- Suggested starting concentration: 2% - 5% .

Consult with our technical staff in case of doubt.

## BENEFITS

- This polymer forms an electrostatic combination with the negatively charged keratin.
- In hair care products, this product can, improve wet and dry combability, increase shine, softness and body, form a non-tacky and continuous film, good curl retention performance and enhance setting properties.
- The product is an effective conditioning agent and it can be formulated into hair styling mousses, lotions and gels, conditioners, treatment products and shampoos. It is also suitable in skin care products such as: liquid soaps and shower gels, shaving products and body lotions.

## STORAGE AND DISTRIBUTION

- The product should be kept in a covered place, the container tightly closed, protected from sunlight and within the temperature range recommended in Section 7 of the Safety Data Sheet.
- Once the container is open, avoid contamination with any other water based product and/or with strong bases. Check the Material Safety Data Sheet.
- For bulk product avoid metal tanks. Plastic materials are recommended (polypropylene, polyethylene...).
- There is a great variety of containers. Check with our Customer Service in order to choose the most convenient one.

## REGULATORY

Consult our technical staff in case of doubt.