



SOLUTIONS IN QUATS THAT FIT YOUR REQUIREMENTS

cGMP Pharmaceutical Grade Products



Preserving Your Quality

WORLDWIDE LEADING SUPPLIER GLOBAL REGULATORY COMPLIANCE PHARMACEUTICAL INGREDIENTS

PRESERVING YOUR QUALITY

FeF Chemicals is the worldwide leading supplier of high quality Quaternary Ammonium Compounds (quats). We are specialized in the pharmaceutical and personal care industries, providing quats of global regulatory compliance. We provide only the very best and safest ingredients for your formulation, preserving its quality and contributing to patient safety.

SPECIALIZED IN YOUR BUSINESS

We are highly specialized in pharmaceutical grade quats with global pharmacopoeial compliance. We manufacture in accordance with the highest GMP standards on the market, the ICH Guide Q7 for Active Pharmaceutical Ingredients. Our ability to manufacture high purity products, combined with our complete range of regulatory services has made us an approved supplier by a large number of global leading pharmaceutical companies.

CONSULTATIVE SELLING

We have 60 years experience in manufacturing quats. Our team of experts can help you choose the right product for your formulation, or develop a specific custom-designed product.

Director
Søren Damtoft



QUALITY ASSURANCE

Consciousness in quality is an integrated part of our work, enabling us to offer outstanding products and services. By regular internal and external staff training and education, we keep us updated with the guidelines requirements. Our quality system meets DS/EN ISO 9001 and ICH's cGMP Guide for Active Pharmaceutical Ingredients (ICH Q7). Uniform quality of finished products is ensured by our efficient quality control systems, computerised materials planning and rigorous laboratory quality control. In-process samples, as well as finished products, are carefully analysed in our modern, well-equipped laboratory.

DS/EN ISO 9001

ICH Q7

We offer complete QA/QC documentation for our cGMP manufactured quats.

FLEXIBILITY ABOVE ALL

FeF Chemicals is supporting innovation by offering customized solutions to meet specific requirements. Fast and reliable services in documentation, analyses and manufacturing fulfilling local to international regulatory requirements, are the key to securing our customers satisfaction. Our delivery and stock policy for our pharmaceutical products is determined to meet the most demanding and urgent requirements of our customers – our pharmaceutical products can be shipped within a week. Our range of products is also offered in a variety of packing solutions, meeting demands for small and large packaging.



RESPONSIBILITY FOR THE ENVIRONMENT

As a chemical company, our considerations for the surrounding environment take a very high priority. We continuously focus on improving our environmental efforts. FeF Chemicals has implemented an environmental management system according to DS/EN ISO 14001. We have an environmental policy and act in accordance with the environmental legislation and other declarations of intent with which we are affiliated. We continuously aim to reduce our environmental impact by developing environmentally safe processes, optimising effective resource utilisation and minimising discharge and waste. As a Novo Nordisk company, FeF Chemicals works with the "Triple Bottom Line" concept, conducting activities in a financially, environmentally and socially responsible way.

DS/EN ISO 14001

DS/EN ISO 18001

Environmental considerations are an integrated part of our every day work. We are ISO 18001 certified, providing a safe and healthy working environment for everyone.



QUATS

QUATS

OUR PRODUCTS – THE BEST IN QUATS

FeF Chemicals focus on manufacturing quaternary ammonium compounds for the pharmaceutical and personal care industries. Our own innovative synthesis process makes us a leading supplier of crystalline quats. This ensures a very high level of purity of our crystalline products such as Cetrimide, Cetrimonium Bromide (CTAB) and Myristalkonium Chloride (MKC). By using raw materials of high purity and following our stringent quality system, our products are particularly suited for applications within the pharmaceutical industry. They act as preservatives in many ophthalmic, nasal and oral drugs and as active ingredients in a variety of topical and antiseptic solutions, ointments and creams. For the cosmetic industry, our quats purity and characteristics provide ideal conditioning, emulsifying and preserving effects in hair and cream products.

Thanks to our closely controlled production process, reducing batch variation to a minimum, we are highly valued by the diagnostic reagent sector. Combined with their high purity, our quats have proven to be significantly superior to other less pure compounds.

CUSTOMIZING QUATS

If the required product is not in the standard assortment, we can design customized products. Our flexible production process can meet customer demands for special chain length distribution and/or solutions of quats mixed in various ratios.

UNIQUE REGULATORY COMPLIANCE

As a supplier to the pharmaceutical, personal care and cosmetic industries, we emphasize on the importance of offering quality products with the appropriate and necessary documentation. We are fully aware of the importance of the registration phase for a drug within the pharmaceutical industry. As a consequence we offer an extensive range of documentation on our pharmaceutical grade products, such as multicompendial analysis and access to regulatory documentation.

Through highly qualified support, we ensure the best possible service and fast preparation of documentation, such as Drug Master Files for our pharmaceutical grade products. In order to further facilitate the drug registration process for our costumers, we offer access to our Certificates of Suitability according to the Monographs of the European Pharmacopoeia, for Benzalkonium Chloride Solution 50%, Benzalkonium Chloride and Cetrimide.

cGMP MANUFACTURING ICH Q7
Our pharmaceutical grade quats are manufactured in accordance with the highest standards for Active Pharmaceutical Ingredients, the ICH Guide Q7.

REGULATORY DOCUMENTATION
We offer complete regulatory documentation such as Certificates of Suitability, Drug Master Files, GMP certificate, and declarations for our pharmaceutical grade quats.



PHARMACEUTICAL GRADE PRODUCTS

MANUFACTURED ACCORDING TO ICH'S cGMP GUIDE FOR API (Q7)

Product Name	CAS No.	Packing size	Item No.
Benzalkonium Chloride Ph.Eur.	8001-54-5	1 kg bottle 5 kg pail	8260001P 8260007P
Benzalkonium Chloride Ph.Eur., USP/NF	8001-54-5	1 kg bottle 5 kg pail	8160001U 8160007U
Benzalkonium Chloride Ph.Eur., USP/NF, JP	8001-54-5	1 kg bottle 5 kg pail	8120951 8120955
Benzalkonium Chloride (3% C16) USP/NF	8001-54-5	5 kg pail	8160008U
Benzalkonium Chloride Solution 50% Ph.Eur.	8001-54-5	1 kg bottle 5 kg jug 25 kg jug	8200301P 8200305P 8200307P
Benzalkonium Chloride Solution 50% Ph.Eur.,USP/NF	8001-54-5	1 kg bottle 5 kg jug 25 kg jug	8100301U 8100305U 8100307U
Benzalkonium Chloride Solution 50% Ph.Eur.,USP/NF,JP	8001-54-5	1 kg bottle 5 kg jug 25 kg jug	8120501 8120505 8120525
Benzalkonium Chloride Solution 50% (45/55) Ph.Eur.,USP/NF	8001-54-5	1 kg bottle 25 kg jug	8302311U 8302307U
Benzalkonium Chloride Solution 50% (60/40) Ph.Eur.,USP/NF	8001-54-5	25 kg jug	8302301U
Benzalkonium Chloride Solution 50% (53/30/15/2) Ph.Eur.,USP/NF	8001-54-5	1 kg bottle	8100315U
Benzalkonium Chloride Solution 50% (85/15)	8001-54-5	1 kg bottle	8100310U
Benzalkonium Chloride Solution 17% USP/NF	8001-54-5	25 kg jug	8100017U
Myristalkonium Chloride (MKC) Pharma	139-08-2	25 kg carton	8060020
Cetrimide Ph.Eur.	1119-97-7	25 kg carton	8070004P
Strong Cetrimide Solution 40% BP Pharma w/ethanol	1119-97-7	200 kg drum	8570200S
Strong Cetrimide Solution 40% BP Pharma w/isopropyl alcohol	1119-97-7	200 kg drum	8570201
Cetyl Trimethyl Ammonium Bromide (CTAB) USP/NF	57-09-0	25 kg carton	8570028

REGULAR GRADE PRODUCTS

Product Name	CAS No.	Packing size	Item No.
Benzalkonium Chloride 95% Regular	8001-54-5	50 kg drum	8560002
Benzalkonium Chloride Solution 50% Regular	8001-54-5	25 kg jug 200 kg drum 1000 kg IBC	8300307 8300303 8300309NN
Benzalkonium Chloride Solution 10% Regular	8001-54-5	1 kg bottle	8300010
Myristalkonium Chloride (MKC) Regular	139-08-2	25 kg carton	8560205
Cetrimide BP	1119-97-7	25 kg carton	8570006
Cetrimide Regular	1119-97-7	25 kg carton	8570004
Strong Cetrimide Solution 40% BP w/isopropyl alcohol	1119-97-7	200 kg drum	8570137
Cetrimide Solution 40%	1119-97-7	200 kg drum 1000 kg IBC	8570117 8570119
Cetyl Trimethyl Ammonium Bromide (CTAB)	57-09-0	25 kg carton	8570025
Cetyl Ethyl Dimethyl Ammonium Bromide (CEDAB)	124-03-8	25 kg carton	8570152
Dodecyl Trimethyl Ammonium Chloride Solution 25% (FeF 12-25A Diagnostic)	112-00-5	200 kg drum	8570035
Stearyl Trimethyl Ammonium Chloride (STAC)	112-03-8	20 kg carton	8570072
Stearalkonium Chloride (SKC)	122-19-0	20 kg carton	8347502
Cetalkonium Chloride (CKC)	122-18-9	20 kg carton	8560302
Chlorhexidine Digluconate Solution 20% Ph.Eur.	18472-51-0	50 kg jug	8340755





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