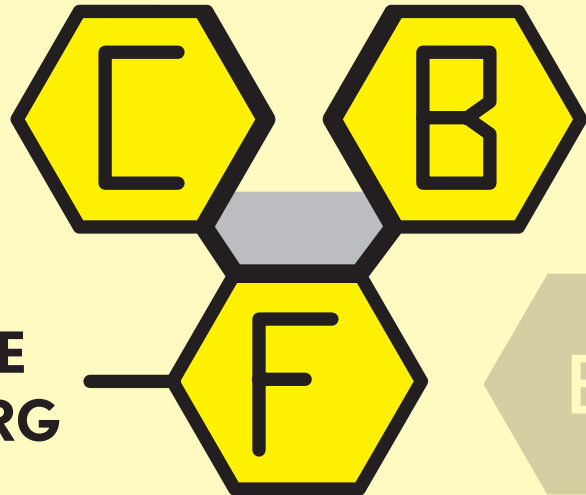


USP



**CHEMISCHE
FABRIK BERG**

EP

BP

JP

ASMF

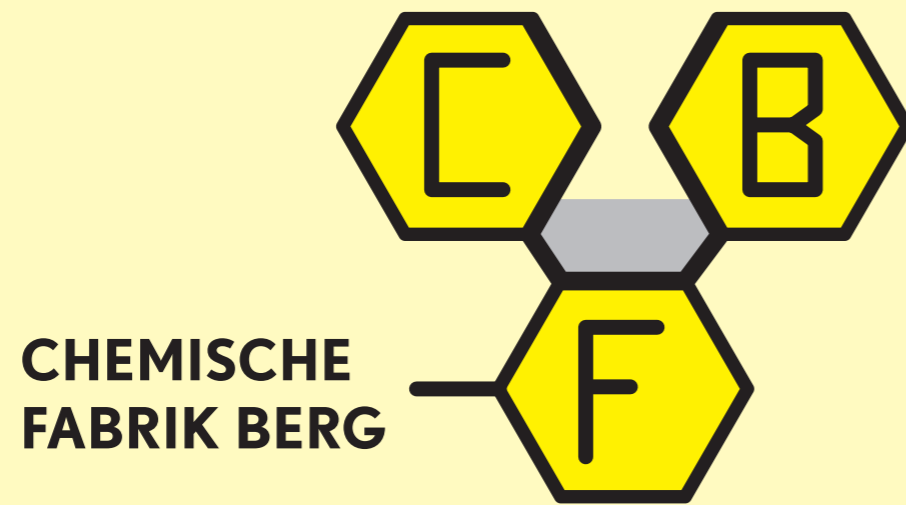
CEP

PRODUCT LIST

Active Pharmaceutical Ingredients
Diagnostics, Fine Chemicals, Intermediates
& Medical Devices
Quaternary Ammonium Compounds
Services

A member of Moehs Group





**CHEMISCHE
FABRIK BERG**

Chemische Fabrik Berg specializes in production of APIs, controlled substances and advanced intermediates. Our production standards are in full compliance with GMP. We are regulary FDA inspected since 2002 and KFDA inspected in 2007 and 2013.

The foundation of CFB in 1953 was an innovative step for Herbert Berg, member of the West German entrepreneurial family Berg which until then had focused on the metalworking industry. CFB went from producing simple barbiturates to establishing itself on the global market as a certified source for complex molecules requiring multi-stage synthesis.

In 1998 CFB moved to Bitterfeld. The city is located in the Eastern part of Germany and has a deep tradition in the chemical and pharmaceutical industries.

CFB offers lab-scale process optimization and small-scale technical production ranging from 1 kg to 100 kg, and industrial production up to a total of 300t per year.

We continually expand and optimize processes and production facilities, which include stainless steel and glass-lined 600 l to 6000 l vessels, centrifuges, filter nutsches, jetmill, dynamic and static dryers. A new finishing area according room class D was established to meet continually increasing quality standards.

We have separate warehouses for packaging materials, intermediates, raw materials and APIs. We operate waste-water treatment facilities and an incinerator with afterburner.

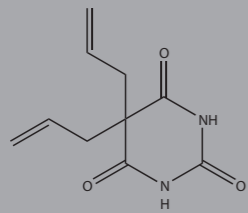
CFB is a member of PMC Europe since 2003 and of Moehs Group since 2009.

Product List Content

| | |
|---|----|
| ACTIVE PHARMACEUTICAL INGREDIENTS | 2 |
| DIAGNOSTICS, FINE CHEMICALS, INTERMEDIATES & MEDICAL DEVICES | 10 |
| QUATERNARY AMMONIUM COMPOUNDS | 12 |
| CUSTOM MANUFACTURING & SERVICES | 14 |
| THE MOEHS-GROUP | 20 |

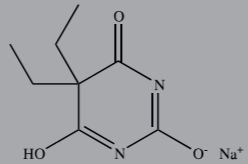
Active Pharmaceutical Ingredients

A ALLOBARBITONE (ALLOBARBITAL) 52-43-7



analgesic (in combination with aminopyrin) • hypnotic • sedative

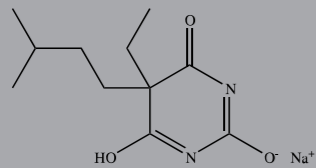
BARBITAL SODIUM 144-02-5



hypnotic • sedative

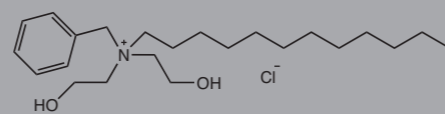
REACH registered

AMOBARBITAL SODIUM 64-43-7



hypnotic • sedative

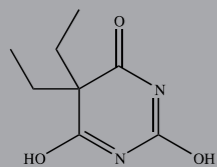
BENZOXONIUMCHLORID EXCLUSIVE 19379-90-9



disinfectant for the treatment of skin injuries • for the supportive treatment of bacterial infections

ASMF (CTD) shortly expected

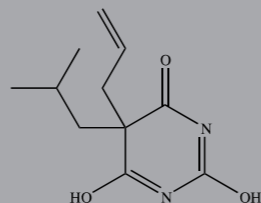
B BARBITAL 57-44-3



hypnotic • sedative

REACH registered

BUTALBITAL 77-26-9

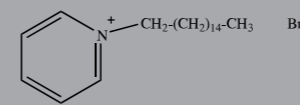


hypnotic • sedative

DMF Type II

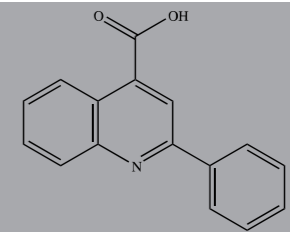
Active Pharmaceutical Ingredients

C CETYLPYRIDINIUM BROMIDE 140-72-7



antisepticum • disinfectant • mouth / throat products • preservative

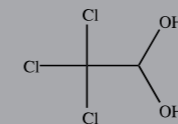
CINCHOPHEN 132-60-5



analgesic • antipyretic

ASMF (CTD)

CHLORALHYDRATE 302-17-0

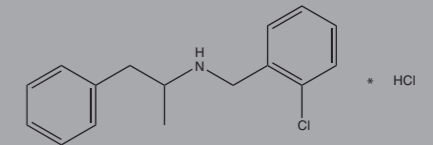


anesthetic • hypnotic • manufacture of pharmaceutical products • sedative

Technical Package

REACH registered

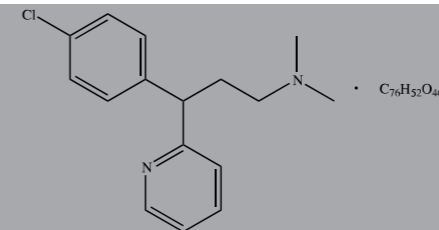
CLOBENZOREX HYDROCHLORIDE 5843-53-8



appetite suppressant

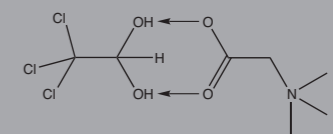
Technical Package

CHLORPHENIRAMINE TANNATE 1405-56-7



antitussive

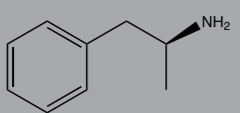
CLORAL BETAINE EXCLUSIVE 2218-68-0



hypnotic • sedative

Active Pharmaceutical Ingredients

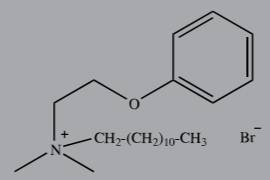
D **DEXAMFETAMINE** 51-64-9



anorexic • CNS stimulant

REACH registered

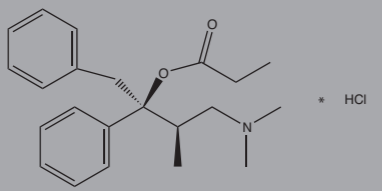
DOMIPHEN BROMIDE 538-71-6



anti-infective (topical) • disinfectant

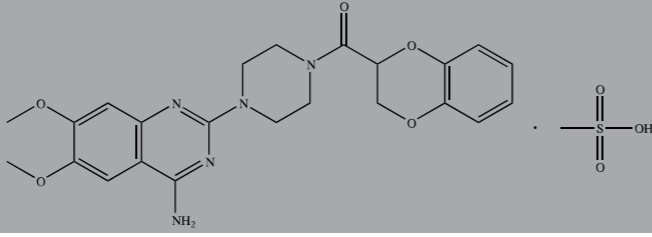
Technical Package

DEXTROPROPOXYPHENE HYDROCHLORIDE EXCLUSIVE 1639-60-7



analgesic • antitussive

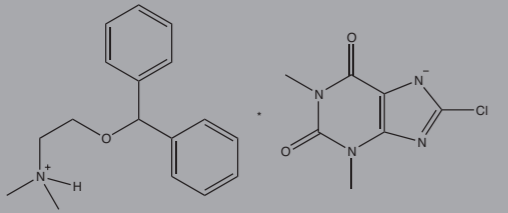
DOXAZOSIN MESYLATE 77883-43-3



α₁-receptor antagonist • antihypertensive • in treatment of benign prostatic hypertrophy

ASMF (CTD)

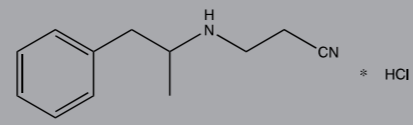
DIMENHYDRINATE 523-87-5



antiemetic

CEP

FENPROPorex HYDROCHLORIDE 18305-29-8 **F**

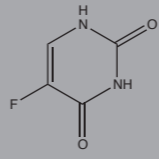


appetite suppressant

Technical Package

Active Pharmaceutical Ingredients

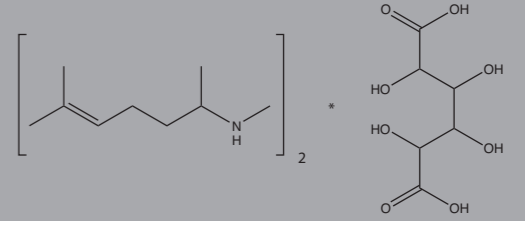
5-FLUOROURACIL EXCLUSIVE 51-21-8



actinic keratosis • anti-cancer

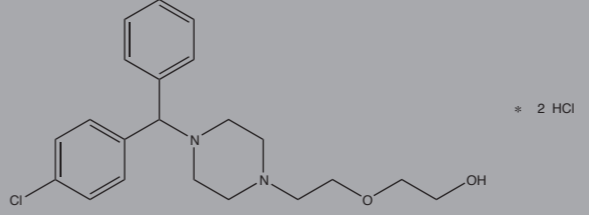
CEP, DMF Type II

ISOMETHEPTENE MUCATE 7492-31-1



anti migrain agent

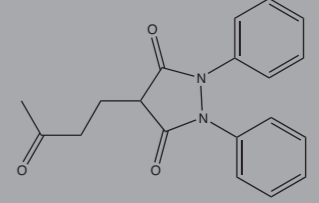
H **HYDROXYZINE DIHYDROCHLORIDE** 2192-20-3



antihistaminic • anxiolytic

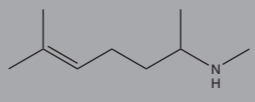
DMF Type II shortly expected

KEBUZONE EXCLUSIVE 853-34-9 **K**



analgetic • anti inflammatory • antipyretic

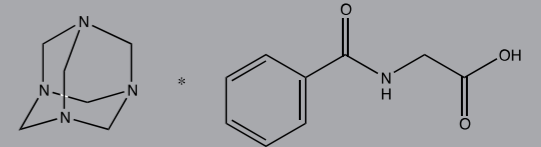
I **ISOMETHEPTENE** 503-01-5



anti migrain agent (as mucate)

REACH registered

METHENAMINE HIPPURATE 5714-73-8 **M**



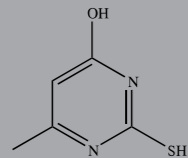
antibacterial (urinary)

ASMF (CTD), DMF Type II

Active Pharmaceutical Ingredients

4(6)-METHYL-2-THIOURACIL

56-04-2

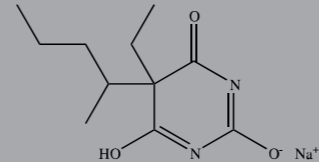


thyroid inhibitor

REACH registered

PENTOBARBITAL SODIUM

57-33-0



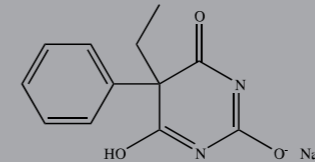
anesthetic (intravenous) • euthanasia • hypnotic • sedative

CEP

Active Pharmaceutical Ingredients

PHENOBARBITAL SODIUM

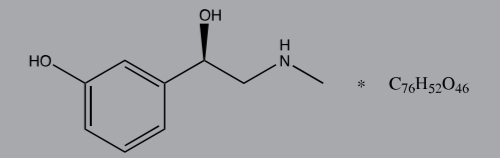
57-30-7



anticonvulsant • hypnotic • sedative

PHENYLEPHRINE TANNATE

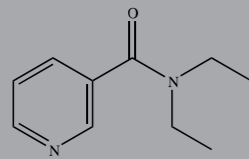
1416-03-1



antitussive

N NIKETHAMIDE

59-26-7

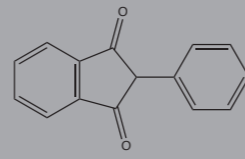


respiratory analeptic • CNS and respiratory stimulant

ASMF (CTD)

PHENINDIONE

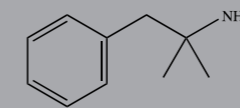
83-12-5



anticoagulant (Vitamin K antagonist)

PHENTERMINE

122-09-8

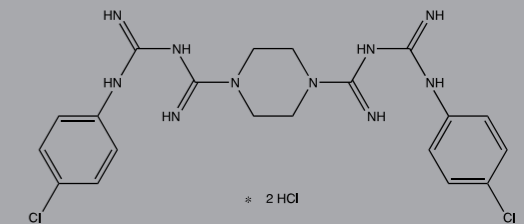


appetite suppressant

REACH registered

PICLOXIDINE DIHYDROCHLORIDE

19803-62-4

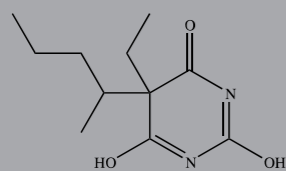


antiseptic (eye drops)

ASMF (CTD)

P PENTOBARBITAL

76-74-4



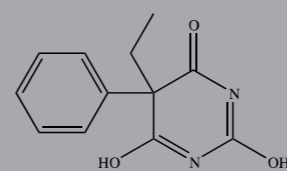
anesthetic (intravenous) • euthanasia • hypnotic • sedative

ASMF (CTD)

REACH registered

PHENOBARBITAL

50-06-6

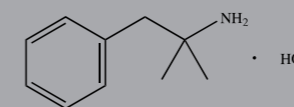


anticonvulsant • hypnotic • sedative

ASMF (CTD), CEP

PHENTERMINE HYDROCHLORIDE

1197-21-3

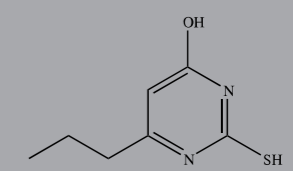


appetite suppressant

ASMF (CTD), DMF Type II

4(6)-PROPYL-2-THIOURACIL

51-52-5



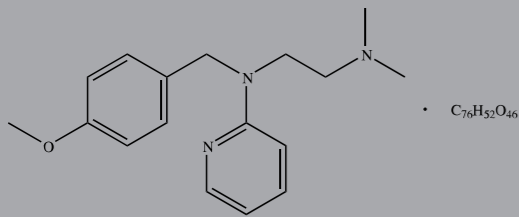
antihyperthyroid

ASMF (CTD), DMF Type II

Active Pharmaceutical Ingredients

PYRILAMINE TANNATE

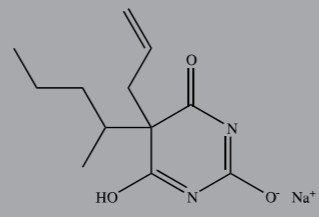
183969-60-0



antihistaminic

SECOBARBITAL SODIUM

309-43-3



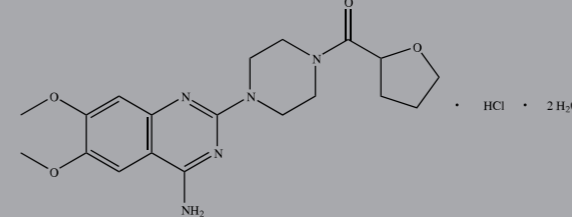
hypnotic • sedative

ASMF (CTD)

Active Pharmaceutical Ingredients

TERAZOSIN HYDROCHLORIDE DIHYDRATE

70024-40-7

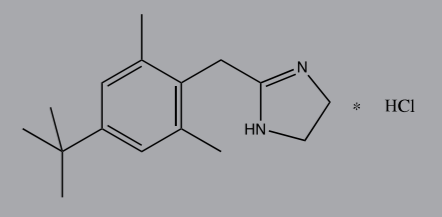


antihypertensive α -blocker • in treatment of benign prostatic hyperplasia

ASMF (CTD), CEP

XYLOMETAZOLINE HYDROCHLORIDE

1218-35-5



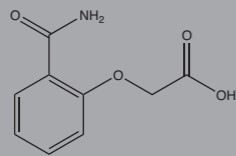
decongestant • rhinological therapeutic • vasoconstrictor

CEP

S

SALICYLAMIDE-O-ACETIC ACID EXCLUSIVE

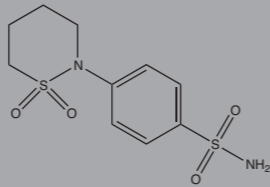
25395-22-6



analgetic • anti inflammatory • antipyretic

SULTIAME EXCLUSIVE

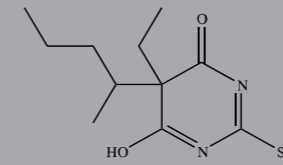
61-56-3



anticonvulsant

THIOPENTAL

76-75-5

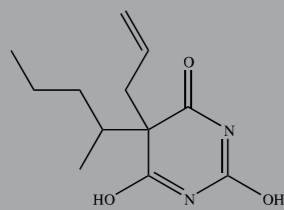


anesthetic (intravenous) • narcotic

REACH registered

SECOBARBITAL

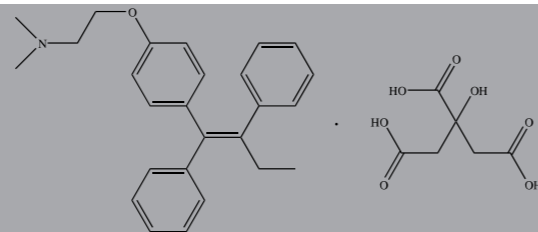
76-73-3



hypnotic • sedative

TAMOXIFEN CITRATE

54965-24-1



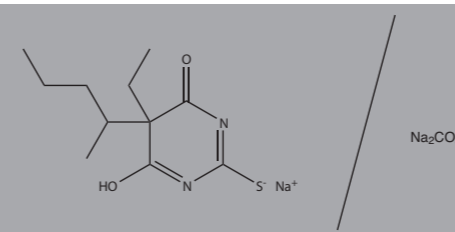
antiestrogen • antineoplastic (hormonal)

ASMF (CTD), CEP

T

THIOPENTAL SODIUM AND SODIUM CARBONATE STERILE

71-73-8

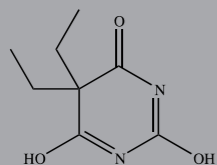


anesthetic (intravenous) • narcotic

CEP

Diagnostics, Fine Chemicals, Intermediates & Medical Devices

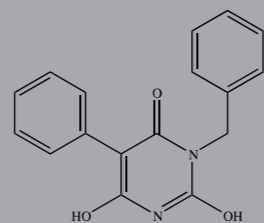
B BARBITAL 57-44-3



electrophoresis

REACH registered

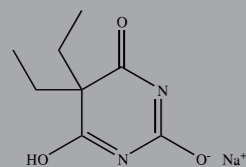
1-BENZYL-5-PHENYLBARBITURIC ACID 72846-00-5



dental adhesive

REACH registered

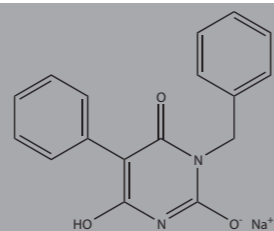
BARBITALSODIUM 144-02-5



as nutrient solution (Rifampicin) + electrophoresis

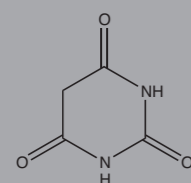
REACH registered

1-BENZYL-5-PHENYLBARBITURIC ACID SODIUM 94201-48-6



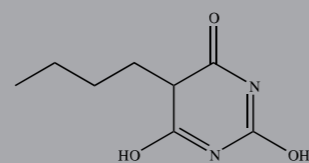
dental products

BARBITURIC ACID 67-52-7



dyes, intermediate of barbiturates

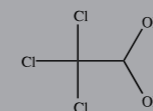
5-BUTYLBARBITURIC ACID 1953-33-9



dental products (cold-polymerization catalyst)

Diagnostics, Fine Chemicals, Intermediates & Medical Devices

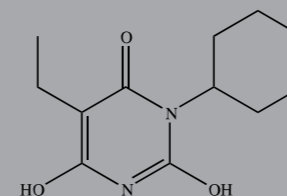
C CHLORALHYDRATE 302-17-0



dyestuff industry

REACH registered

1-CYCLOHEXYL-5-ETHYLBARBITURIC ACID 837-32-1



dental products (cold-polymerization catalyst)

Quaternary Ammonium Compounds

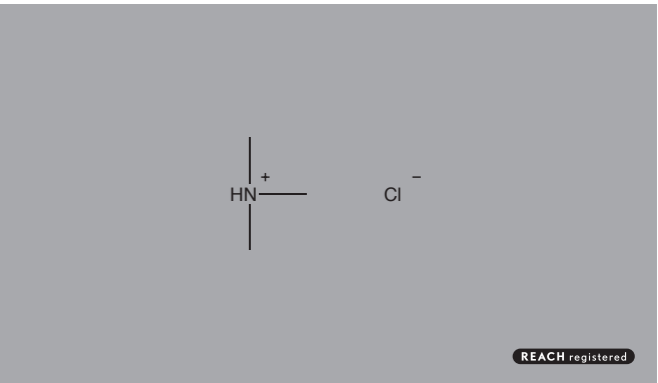
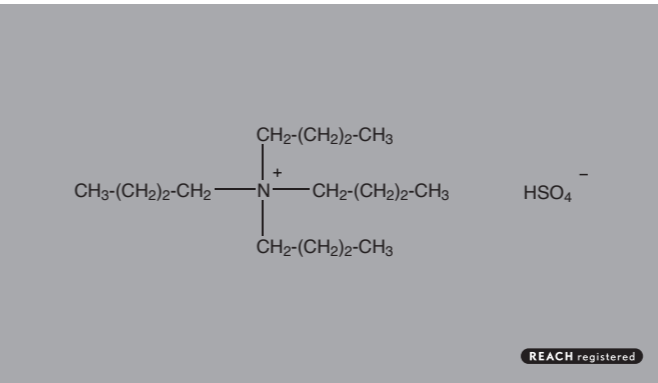
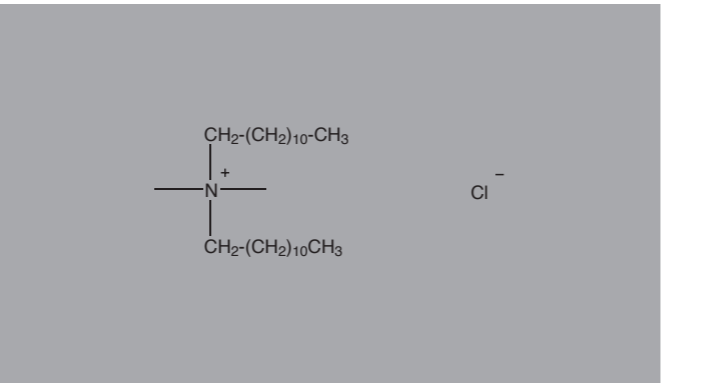
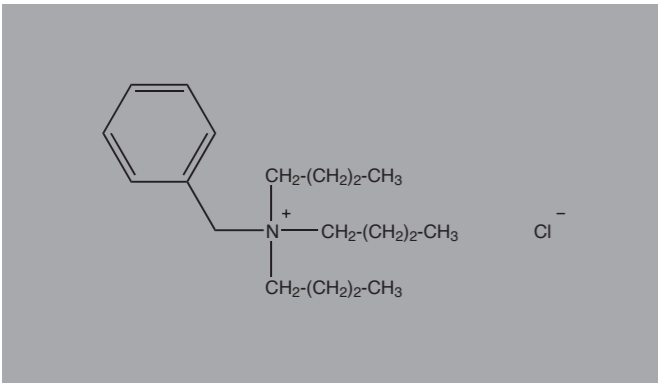
Quaternary Ammonium Compounds

B BENZYLTRIBUTYLAMMONIUM CHLORIDE 23616-79-7

D DILAURYLDIMETHYLAMMONIUM CHLORIDE 3401-74-9

TETRABUTYLAMMONIUM HYDROGENSULFATE 32503-27-8

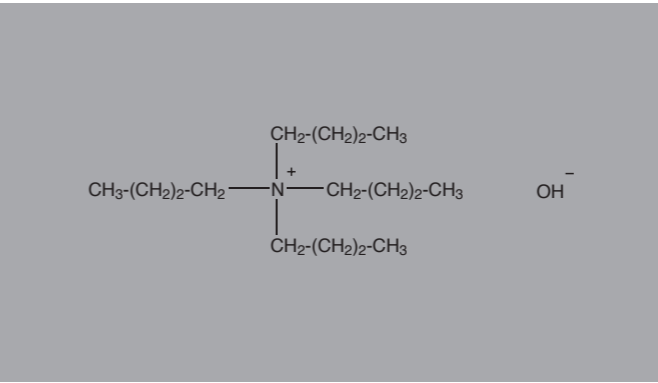
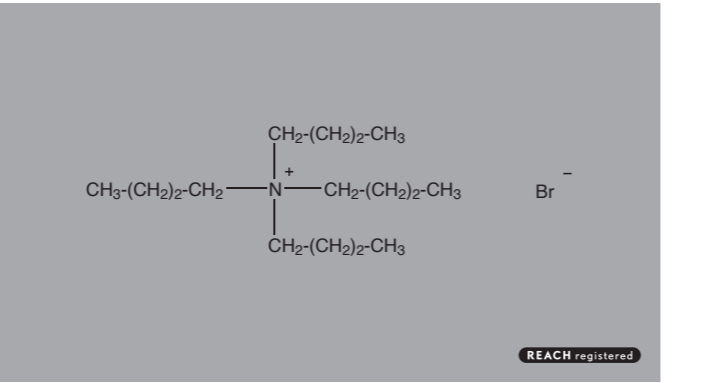
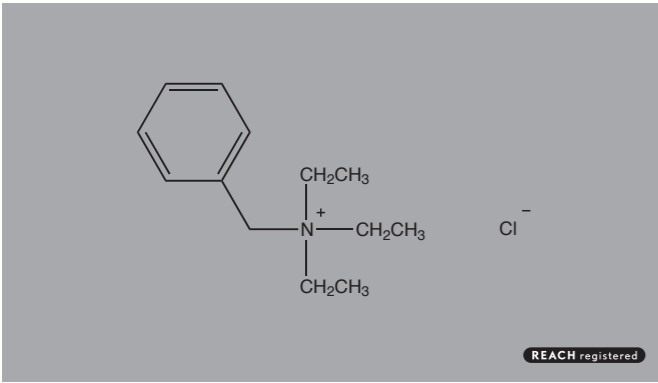
TRIMETHYLAMMONIUM CHLORIDE (65 % in water) 593-81-7



BENZYLTRIETHYLAMMONIUM CHLORIDE 56-37-1

TETRABUTYLAMMONIUM BROMIDE 1643-19-2

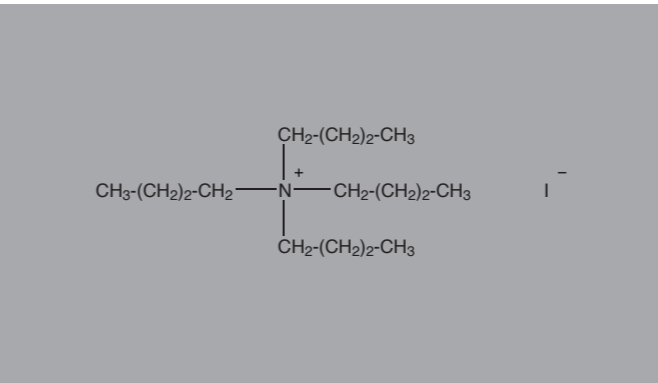
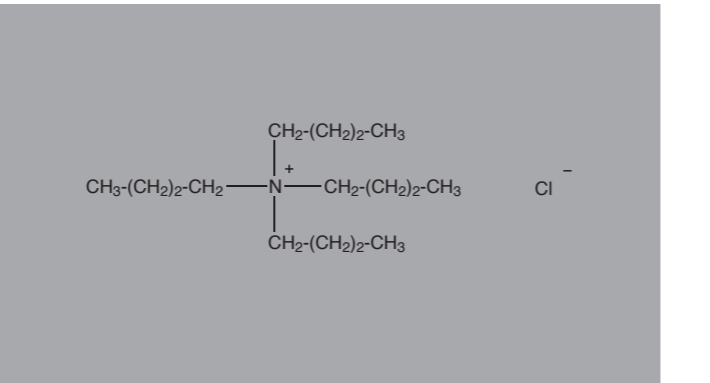
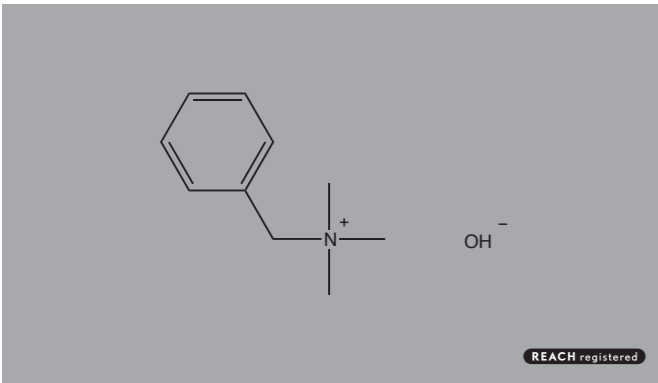
TETRABUTYLAMMONIUM HYDROXIDE (solutions in methanol and water) 2052-49-5



BENZYLTRIMETHYLAMMONIUM HYDROXIDE (40 % in methanol) 100-85-6

TETRABUTYLAMMONIUM CHLORIDE 1112-67-0

TETRABUTYLAMMONIUM IODIDE 311-28-4



Custom Manufacturing

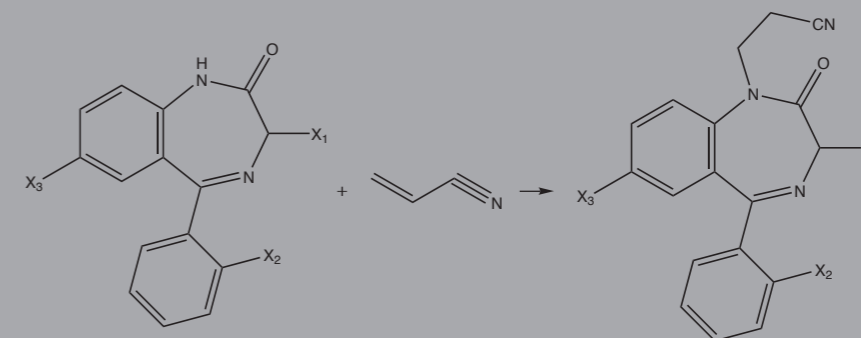
Reactions and service we offer

| | |
|----------|--|
| A | Alkylation |
| C | Condensation Cyanation Cyclization |
| E | Esterification |
| G | Grignard |
| H | Hydrogenation |
| M | Michael addition Micronisation |
| O | Oxidation |
| Q | Quaternization |
| R | Repackage Ritter reaction |
| S | Salification Saponification |

Custom Manufacturing

ALKYLATIONS

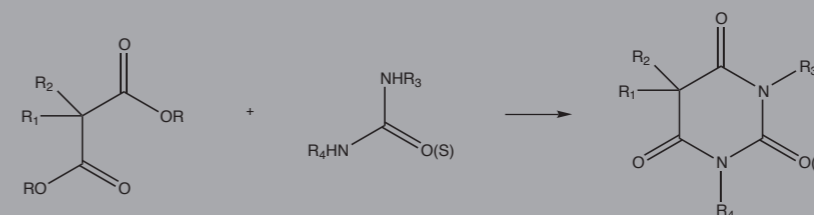
e. g.: alkylation with acrylonitrile



$X_1 = \text{OH}, \text{CH}_3\text{CO}_2$
 $X_2, X_3 = \text{Cl}, \text{F}$

CONDENSATIONS / CYCLIZATIONS

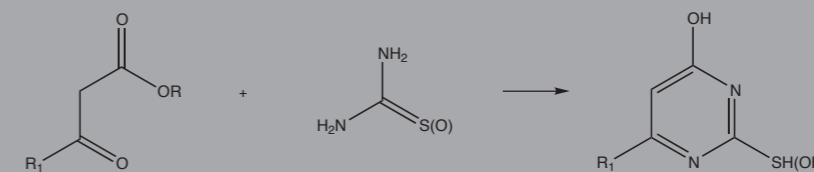
e. g.: condensations of malonic esters with derivatives of ureas, thioureas, resp. guanidines to form barbiturates



$R = \text{Me}, \text{Et}$
 $R_1, R_2, R_3, R_4 = \text{H}, \text{Alkyl}, \text{Aryl}, \text{Phenyl}$

CONDENSATIONS / CYCLIZATIONS

e. g.: condensations of dicarbonyl compounds with derivatives of thioureas to form thiouracils

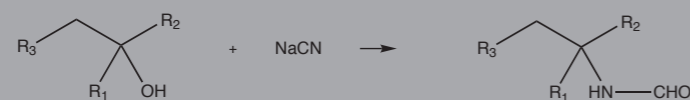


$R = \text{Me}, \text{Et}$
 $R_1 = \text{H}, \text{Alkyl}, \text{Aryl}, \text{Phenyl}$

Custom Manufacturing

CYANATIONS

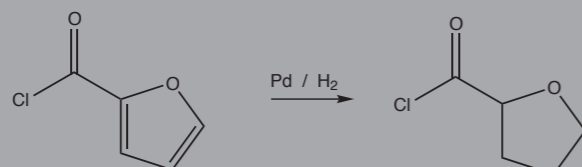
e. g.: reaction of sodium cyanide to form amides



R₁, R₂ = Alkyl
R₃ = Aryl, Phenyl

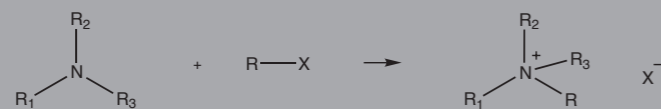
HYDROGENATIONS

e. g.: synthesis of tetrahydrofurans



QUARTERNIZATIONS

e. g.: reaction between amines and alkyl halides to form quaternary ammonium compounds

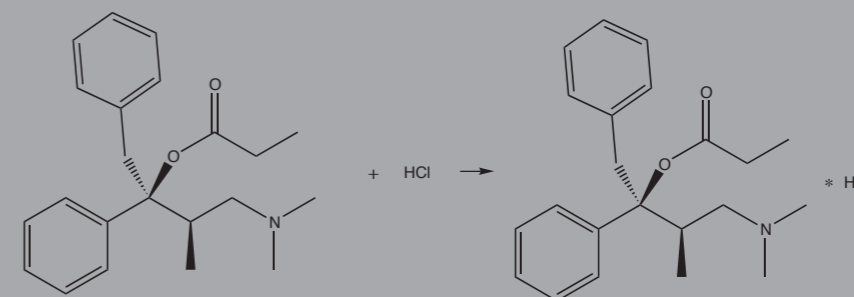


R, R₁, R₂, R₃ = Alkyl, Aryl
X = Br, Cl, OH

Custom Manufacturing

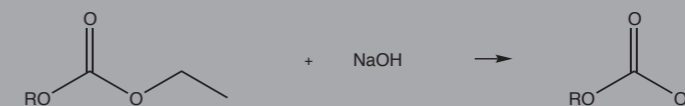
SALIFICATIONS

e. g.: synthesis of hydrochlorides



SAPONIFICATIONS

e. g.: carbonic acids from carbonic esters



R = Aryl, Phenyl

Services

GMP Micronisation of APIs under clean room (Class D) conditions.



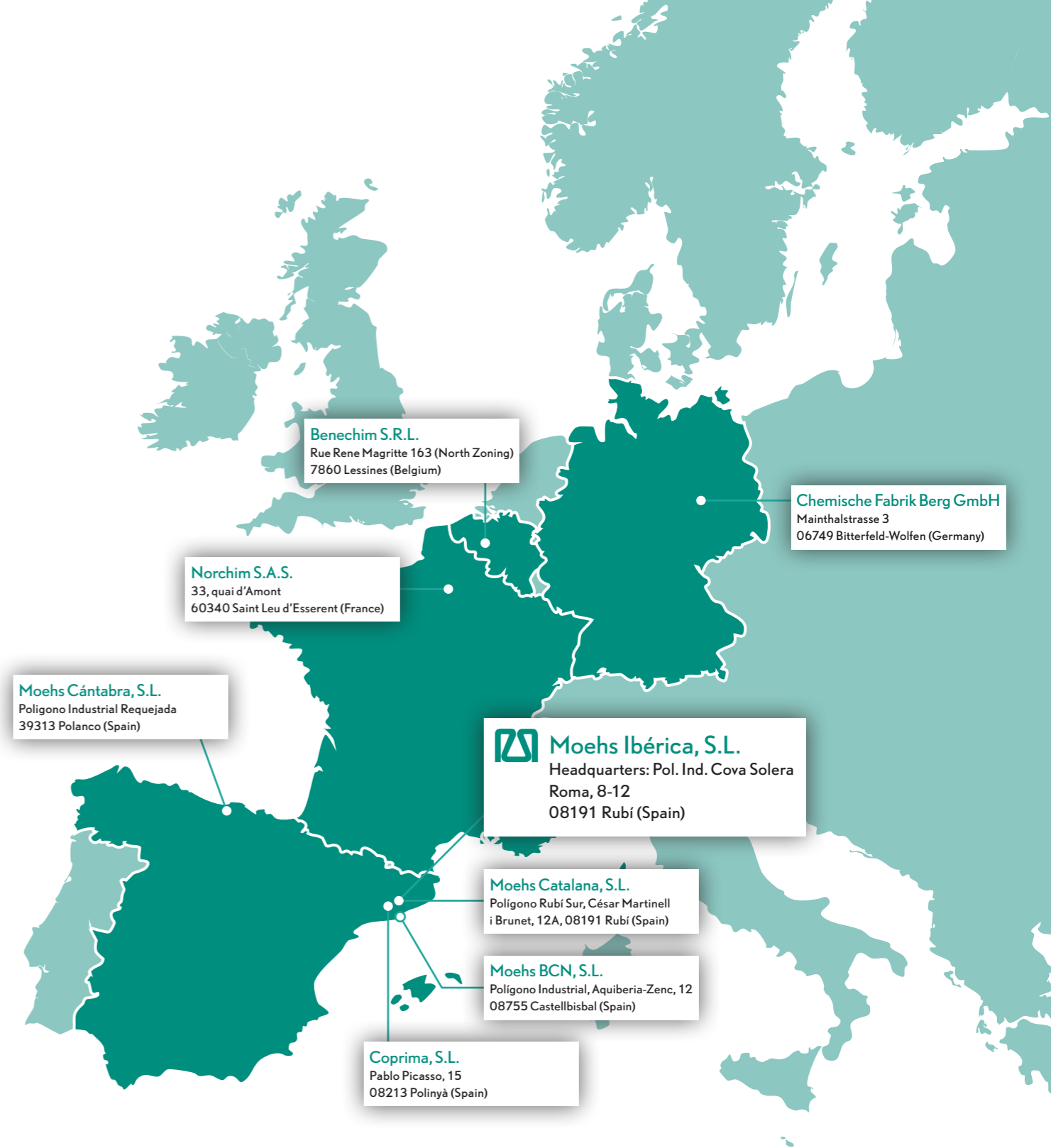
We are offering custom Micronisation with our spiral Jet Mill MC 300. Our specialty is the permission of handling (Micronisation) controlled substances. The maximum range is between 0.5 and 10 μm depending on the physical properties of the substances.

Services

GMP Re-packaging in customized package sizes from bulk goods.



The Barrier workbench is located in a clean room (Class D) and can be used for weighing and packaging of high toxic or high potent products (up to OEL „Occupational Exposure Level“ 5). We can start from a typical 80 l fiber drum and re-pack into smaller amount packaging units between several grams or kilograms.



Chemische Fabrik Berg is a member of the Moehs Group (Spain), a subsidiary of PMC Global Inc., Sun Valley, CA. The group has seven manufacturing sites highly flexible due to being multi-purpose plants: four in Spain (Moehs Catalana S.L., Moehs Cántabra, S.L., Coprima, S.L. and Moehs BCN, S.L.), one in Belgium (Benechim), one in Germany (Chemische Fabrik Berg) and one in France (Norchim).

All companies integrated in the group specialize on the development and the production of pharmaceutical ingredients. They share synergies to optimize existing resources and develop a common global strategy for marketing APIs, fine chemicals, generics and custom-made products.

Like each member of the Moehs Group, Chemische Fabrik Berg is committed to providing excellent product quality and first-class service to customers.

www.cfb.de

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