MINASCENT®
TECHNOLOGIES
CHALLENGING CHEMISTRY

MINASCENT your Partner of Choice For Challenging Chemistry

Minascent has developed worldwide recognition for custom synthesis, contract manufacturing and new product development.

Minascent specializes in challenging organic synthesis, supplying customers with high value-added products at high quality standards based on sophisticated quality systems.

Minascent serves markets including pharmaceuticals, feed additives, cosmetics, flavors & fragrances and specialty chemicals.
DEVELOPMENT AND MANUFACTURING SERVICES

- FDA inspected and FAMI-QS certified cGMP manufacturing site
- Multipurpose plant with broad technical capabilities and decades of expertise in challenging chemistry
- Capacity from grams to hundreds of tons of fine chemicals to support clients from early test phases to commercial launch
- Process development and scale-up, state of the art technical centre, solid state lab, kilo lab and pilot plant
- Extended distillation and reaction capabilities
- Analytical laboratories are equipped with or have access to the latest instrumentation such as: HPLC, GC, HPLC/MS, GC/MS, ICP/MS, TGA, UV, DSC, XRD, and NMR
- All our teams are highly trained to handle demanding custom manufacturing projects
- We offer dedicated project management to ensure smooth and seamless progression of projects

WHAT YOU CAN EXPECT FROM
MINASCENT
YOUR PARTNER OF CHOICE

- Open and transparent communication
- Reliable Process/analytical development
- Process optimization driven by Operational Excellence and cGMP compliance
- Safety First with our dedicated team to guarantee safe scale-ups
- Fast, flexible and responsive to customer requests
- Professional project management
- Continuous investment and facility upgrades
- Comprehensive catalog product portfolio available from stock
- EUUS manufacturing facilities
- Dedicated project teams
TECHNOLOGIES AND PRODUCTS

**Di-BOC**
Minascent is the only European manufacturer of the important protecting agent Di-tert butyl dicarbonate. We offer pure Di-BOC, several tailor-made Di-BOC solutions in common solvents and a growing range of Di-BOC derivatives, including protected Amino-acids and mono-protected Diamines.

**Sulphur chemistry**
Typical reactions undertaken include Michael additions and nucleophilic substitutions to produce Thiopivalic acid, Alkyl and Benzyl sulphides, Thiols, Mercapto-triazine.

**Selenium chemistry**
Minascent has gained significant experience in the use of Selenium (solid), Selenium organometallic salts, for example MeSeLi, and Selenium dioxide (oxidizing agent).

**Hydrazine chemistry**
Minascent performs reactions with Hydrazine to produce derivatives like Alkyl-, Aryl-hydrazines, Hydrazines, Pyrazoles.

**Acyl / Sulfonyl chlorides**
Minascent manufactures a range of specialty Acid chlorides.

REATIONS AND REAGENTS

Minascent routinely undertakes highly reactive chemistry including exothermic processes, oxidations and hydrogenations. We are experienced at handling a wide range of hazardous reagents and are able to safely use toxic and corrosive chemicals and gases, including air and moisture-sensitive materials.

- Organometallic chemistry using a wide range of metals
- Methylation with Dimethyl sulphate
- Oxidations with H₂O₂ and HNO₃
- Reductions with Hydrides, Hydrogen gas or Hydrazine
- Chlorinations with Chlorine and chlorination reagents
- Nitrations
- Pressure reactions up to 25 bar for NH₃, H₂, CO₂, Acetylene, Allene
- Protecting chemistry including DHP, Carbazate, Di-Boc, ...
- Handling of Sulphur raw materials: Dimethyl sulphate, Mercaptans, Mercaptides, Sulfides (R-S-R'), Sodium hydrogen sulphide, SOCl₂, Thiourea, Sulfonyl chlorides
- Off-gas handling of SO₂, H₂S, Methyl mercaptan

EQUIPMENT

- Kilo laboratory and distillation laboratory
- Pilot plant with several stainless steel and glass-lined reactors between 300-1200 L
- Isolation/drying with Hastelloy Nutsch filter and stainless steel filter
- Production plant with a total reactor capacity of approximately 100 m³
  - 9 multi-purpose lines with reactor sizes between 2.5 m³ - 12 m³
  - 3 lines GMP-capable and planned extension to 5 from 2018
  - Stainless steel filter, filter dryer, inverted centrifuge, 2 x Hastelloy centrifuges
  - Stainless steel paddle drier, cone dryer (GMP) and tray dryer (GMP)
- Distillation capabilities include short path, (continuous) thin film and fractionation
Minascent Technologies, Pennakem and Pressure Chemicals are a part of the Niche Technologies within the Minafin Group.

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