



It's true, we are the world leader in pyridine chemistry, but we don't stop there.

Vertellus continues to be a leading provider of specialty chemicals for the agriculture, nutrition, pharmaceutical and medical, personal care, plastics, coatings and industrial markets.

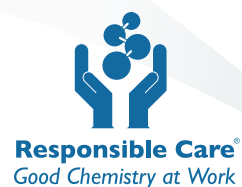
Researchers around the world know that we enable modern, global companies to function at the highest level. We do it with high pressure chemistries, aminations and reductions. We do it with sulfonations, maleation, green technologies and more.

And, we do it with your success in mind.



**At Vertellus,
we're all about
performance –**

your performance.



Global Presence, Superior Solutions

HEALTH & SPECIALTY PRODUCTS DIVISION

Providing a range of fine chemicals tailored to meet your needs.

End Markets

Pharmaceuticals and Agrochemicals
Personal Care
Plastics and Polymers
Industrial

Market Leader

Cetylpyridinium Chloride (CPC),
DEET, EASY-FLO® DMAP,
Specialty Pyridine Derivatives,
Specialty Sulfones, Vinylpyridine,
Vitride® Reducing Agent, and
ZeMac® Copolymers



AGRICULTURE & NUTRITION DIVISION

The global market leader in pyridine and picolines, and the world's second largest producer of Vitamin B3.

End Markets

Agrochemicals, Biocides, Catalysts,
and Human and Animal Nutrition

Market Leader

Alpha, Beta and Gamma Picoline,
3-Cyanopyridine, and Pyridine

PERFORMANCE MATERIALS DIVISION

Natural and renewable chemistries based on castor oil, citrate esters, and shea butter.

End Markets

Coatings and Inks, Personal Care,
Plastics and Polymers, and
Sealants and Adhesives

Market Leader

Citrate Plasticizers and
Natural Castor Oil Derivatives

Vertellus Health & Specialty Products
300 North Meridian Street, Suite 1500
Indianapolis IN 46204 USA
Phone: +1 317-247-8141
www.Vertellus.com



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Why
is this
researcher
confident?



**Sophisticated
Solutions.**

Product expertise. A broad portfolio.
An innovative platform.

Technically speaking – we make
the tough chemistry look easy.

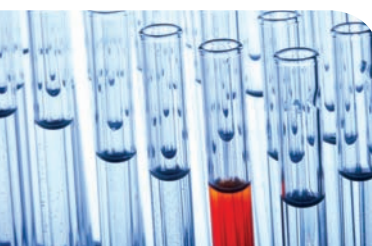
Health & Specialty Products

Vertellus Health and Specialty Products is a leading global provider of high-value specialty and fine chemicals and services to the pharmaceutical, consumer, agricultural, plastics, polymers and industrial end markets. Our products and synthesis technologies offer a unique combination of intermediates and custom manufacturing capabilities, including FDA Food & Pharma cGMP validated processes and procedures.



MARKETS

- Agrochemicals
- Food & Pharma cGMP
- Coatings and Inks
- Composite Polymers
- Custom Synthesis
- Industrial
- Intermediates
- Medical Coatings
- Metal Plating
- Nutraceuticals
- Personal Care
- Pharmaceutical
- Plastics and Polymers
- Sealants and Adhesives



PRODUCTS

- Alkanes
- Antioxidants
- Biocompatible Polymers
- Biomaterials
- Boronic Acids
- DEET
- High Purity Salts
- Maleic Anhydride Derivatives
- Nutraceuticals
- Phase Transfer Catalysts
- Picolinates
- Pyridines and Piperidines
- Reducing Agents
- Sulfones



CAPABILITIES

- Bulk Storage and Handling of Hazardous Raw Materials
- Efficient Liquid Separations
- Food & Pharma cGMP
- High Pressure
- High Temp / High Vacuum Distillation
- Kilo plant
- Maleation
- Multipurpose Reactors
- Pilot Plant
- R&D Labs
- Solids Handling
- Sulfonation



PLANTS

USA
Bayonne, NJ
Delaware Water Gap, PA
Greensboro, NC
Indianapolis, IN (HQ)
Zeeland, MI

UK
Seal Sands, Middlesbrough

BELGIUM
Antwerp

CHINA
Nantong JV, Nantong

Health and Specialty Products

Alkanes

- Decane
- Dodecane
- Heptadecane
- Hexadecane
- Nonane
- Octadecane
- Pentadecane
- Tetradecane
- Tridecane
- Unedecane

Antioxidants

- 1,1,3-Tris(2-methyl-4-hydroxy-5-*t*-butylphenyl) butane (Topano®-Antioxidant)
- 2,5-Bis(1,1,3,3-tetramethylbutyl) hydroquinone (TMBH)

Boronic Acids

- 2,3-Dimethoxy-4-pyridyl boronic acid
- 2,6-Dichloro-3-pyridyl boronic acid
- 2,6-Dimethoxy-3-pyridyl boronic acid
- 2-Amino-5-pyrimidyl boronic acid
- 2-Bromo-5-pyridyl boronic acid
- 2-Chloro-3-quinolyl boronic acid
- 2-Chloro-5-pyridyl boronic acid
- 2-Chloro-5-pyrimidyl boronic acid
- 2-Ethoxy-3-pyridyl boronic acid
- 2-Ethoxy-5-pyridyl boronic acid
- 2-Fluoro-3-pyridyl boronic acid
- 2-Fluoro-5-pyridyl boronic acid
- 2-Methoxy-3-pyridyl boronic acid
- 2-Methoxy-5-pyridyl boronic acid
- 2-Methoxy-5-pyrimidyl boronic acid
- 2-Methoxy-6-phenyl-3-pyrazinyl boronic acid
- 3,6-Dimethoxy-4-pyrazinyl boronic acid
- 3-Bromo-5-pyridyl boronic acid
- 3-Methoxy-6-(2-fluoro-5-pyridyl)-4-pyrazinyl boronic acid
- 3-Methoxy-6-(2-fluoro-5-pyridyl)-4-pyrazinyl boronic acid, pinacol ester
- 3-Methoxy-6-phenyl-4-pyrazinyl boronic acid
- 3-Quinolyl boronic acid
- 5-Pyrimidyl boronic acid
- 5-Quinolyl boronic acid

Maleic Anhydride Derivatives (+ASAs)

- 2,5-Furandione, dihydro-, mono (C24-54 branched and linear) 2-alkenyl, J-30
- Dodecenyl succinic anhydride, K-12
- Dodecenyl succinic anhydride, Specially Distilled, K-12S
- Heicowax 6
- Maleic Acid
- N-Dodecenyl succinic anhydride, J-12
- N-Octenyl succinic anhydride, J-8
- Nonenyl succinic anhydride, K9
- Nonenyl succinic anhydride, Specially Distilled, K-9B
- N-Tetradecenyl succinic anhydride, J-14
- ZeMac® Copolymers

Others

- Acetoxy acetyl chloride (AAC)
- DEET
- Diisopropylpropionitrile (DIPPN)
- N-Benzyl-N-*tert*-butylamine
- Vitride® Reducing Agent

Pyridines and Piperidines

- 1-Methylpiperidine
- 2,6-Diaminopyridine
- 2,6-Dimethylpyridine / 2,6-Lutidine
- 2-Amino-3-methylpyridine
- 2-Amino-6-methylpyridine / 2-Amino-6-picoline
- 2-(Aminomethyl) pyridine
- 2-Aminopyridine
- 2-Cyanopyridine
- 2-Ethanolpiperidine
- 2-Ethanolpiperidine, High Purity
- 2-Vinylpyridine
- 3-(Aminomethyl) pyridine
- 3,5-Dimethylpiperidine / 3,5-Lupetidine
- 3,5-Dimethylpyridine / 3,5-Lutidine
- 3-Aminopyridine
- 3-Cyanopyridine
- 3-Hydroxypyridine
- 3-Picoline-N-oxide (PNO)
- 3-Pyridylcarbinol
- 2-Pyridine methanol
- 4-(Dimethylamino) pyridine (DMAP)
- 4-Phenylpropylpyridine
- 4-Vinylpyridine
- Bispicolylamine
- Chromium picolinate
- DI-PIP® Amine
- DI-PYR™ Amine
- DMAP (4-(Dimethylamino)pyridine)
- EASY-FLO® DMAP
- Isonicotinic acid
- Piperidine
- Pyridine-2-carboxylic acid/Picolinic acid
- Reillex™ P50 Accelerator
- Reillex™ 402 Polymer
- Reillex™ 425 Polymer
- Reillex™ HP Polymer
- Reillex™ HPQ Polymer
- Reilline® 400 Polymer
- Reilline® 4035 Polymer
- Reilline® 410 Polymer
- Reilline® 4140 Polymer
- Reilly PDHP® Adhesive Activator
- R-EthylNipecotate L-Tartrate
- Zinc picolinate

Quats (Phase Transfer Catalysts)

- Cetyl trimethyl ammonium para-toluene sulfonate, (CETATS)
- Cetylpyridinium chloride (CPC)
- Distearldimethylammonium bisulfate (DDABS)
- Distearldimethylammonium methosulfate (DDAMS)
- Methyltributylammonium chloride (MTBAC)
- Phenyltrimethylammonium chloride (PTMAC)
- Tetrabutylammonium bromide (TBAB)
- Tetrabutylammonium bromide 50% (TBAB)
- ZeStat® Antimicrobial

Salts & Solutions

- Acetamide, Purified
- Ammonium acetate 65% Technical
- Ammonium acetate, ACS
- Ammonium benzoate, ACS
- Ammonium benzoate, Purified
- Ammonium bisulfite 45%
- Ammonium formate, 50% Purified
- Ammonium formate, Reagent
- Ammonium oxalate, Technical
- Ammonium salicylate, Reagent
- Ammonium sulfate ACS
- Ammonium sulfate Reagent 38%
- Ammonium sulfate, FCC
- Ammonium sulfite, Purified
- Magnesium salicylate USP Chilsonated
- Magnesium salicylate USP Powder
- Potassium sulfite 45%, Reagent
- Sodium acetate Trihydrate, Reagent
- Sodium formate, ACS
- Sodium oxalate, Technical
- Sodium phosphate, monobasic, Reagent
- Zinc acetate, Reagent
- Zinc acetate, Technical
- Zinc acetate, USP
- Zinc salicylate

Sulfones/Sulfonated items

- 4,4'-Dichlorodiphenyl sulfone (DCDPS)
- Ethyl 4-toluene sulfonate (Ethyl tosylate)
- Methyl 4-toluene sulfonate (Methyl tosylate)
- Potassium diphenyl sulfone sulfonate (KSS)

Vertellus Biomaterials

- 2-methacryloyloxyethylphosphorylcholine
- PC Technology™ phosphorylcholine polymers



For clinically proven biocompatibility
www.pcbiomaterials.com



Delivering performance one solution at a time.

Let us customize your chemistry – contact us at www.Vertellus.com