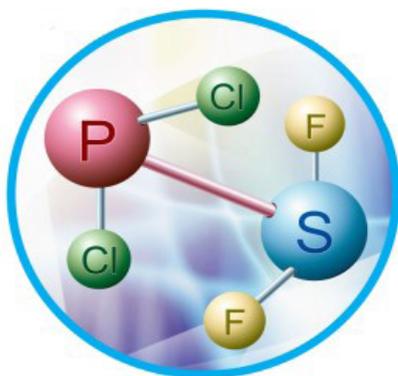




Your Partner in Custom Manufacturing



Specialty

&

Custom Chemicals

The Varsal Story

Since our start in 1993, Varsal has developed into a technically-focused global manufacturer of specialty chemicals. Headquartered in Warminster, PA, Varsal has an ISO-9000 and GMP-compliant chemical manufacturing center and research/QC laboratory in Tangshan, China.



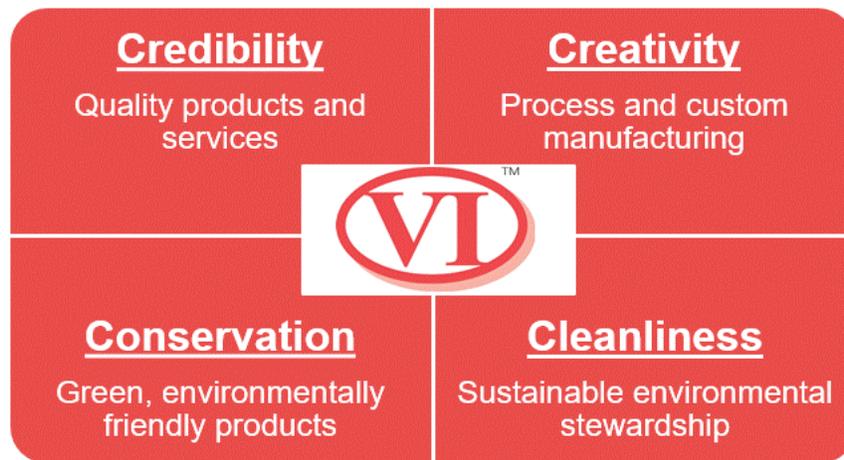
We build partnerships now and into the future by offering quality products at competitive prices with on-time delivery

The Varsal Advantage

- ✓ Guaranteed high-quality products and service driven by stringent quality assurance program
- ✓ Deep chemical and instrumentation technical expertise (~ 70 patents)
- ✓ Numerous 20+ year relationships with Fortune 500 clients
- ✓ Strategic commercial and operational presence in the U.S. and China
- ✓ 25+ years of ISO/GMP-compliant manufacturing experience in China
- ✓ Strong protection of U.S. intellectual property & adherence to U.S. law
- ✓ Deep global logistics and procurement experience



Our Core Principles

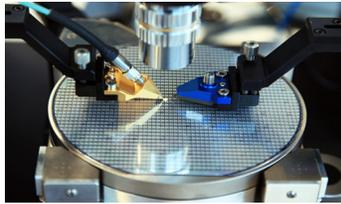


Industries Served

Industrial



Electronics



Personal Care



Pharmaceutical



Core Products

- Methanesulfonyls
- Phosphorus products
- Pharmaceutical Intermediates

Core Technologies

- Hydrogenation
- Sulfonation
- Esterification
- Chlorination
- Fluorination

We offer a wide range of packaging options including bulk shipments, intermediate bulk containers (totes), drums, bags and pails.



Product	Applications				Varsal Advantage
	Industrial	Electronics	Personal Care	Pharma	
Sulfonyl Chemicals					
Methanesulfonic Acid (MSA) 70%	✓	✓			Low odor, low oxidizables & chlorides
Methanesulfonic Acid (MSA) 85%	✓	✓	✓		Superior performance, low oxidizables & chlorides, low odor
Methanesulfonic Acid (MSA), Anhydrous/Pharma	✓	✓		✓	DMDS-based, cleaner & safer than methyl mercaptan, proven quality
Tin/Lead Methanesulfonate	✓	✓			Low odor, low oxidizables & chlorides, superior performance
Methanesulfonamide	✓				High purity, low odor, proprietary process
Dimethyl Disulfide (DMDS)	✓			✓	High purity, low waste & corrosion
Methanesulfonic Chloride (MSC)	✓	✓	✓	✓	High purity, low waste & corrosion, effective germ/pest control
Phosphorus Chemicals					
Sodium Hypophosphite, Monohydrate	✓	✓		✓	Superior performance, low oxidizables & chlorides
Hypophosphorous Acid (HPA)		✓		✓	Superior performance, low oxidizables & chlorides, low odor
Nickel Hypophosphite, Hexahydrate	✓				Produced through proprietary process, high purity
Tetrakis (Hydroxymethyl) Phosphonium Sulfate (THPS) & THPS-Urea	✓				High purity, low waste, customizable
Tetrakis (Hydroxymethyl) Phosphonium Chloride (THPC) & THPC-Urea	✓				High purity, low waste, customizable
Pharmaceutical / Technical Intermediates					
Trifluoromethanesulfonic Acid (Triflic)	✓			✓	High purity, low waste & corrosion
Trifluoromethanesulfonic Acid (Triflic), Anhydride				✓	High purity, low waste & corrosion
Toluenesulfonylmethyl Isocyanide (TosMIC)	✓			✓	Leading producer, high purity, low loss on drying leads to higher yield
N,N'-dicyclohexylcarbodiimide (DCC)				✓	High purity, low loss on drying leads to higher yield
L-Aspartic Acid			✓	✓	High purity, customized to specification
Acetamidine Hydrochloride	✓		✓	✓	High purity, utilizes Varsal's chlorination expertise
3-oxo-2-phenylbutanamide				✓	High purity, low waste leads to higher yield
Mechlorethamine Hydrochloride				✓	High purity, utilizes Varsal's chlorination expertise

Please visit us at www.varsal.com or for a consultation and help fulfilling your needs, please contact us:

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