



Dependable Partners for  
Development with Growth





### About ZCL Chemicals

With annual sales of over US\$ 12 million and 180 employees, ZCL Chemicals Ltd. is a chemical company that combines the power of science and technology.

Established in 1991, the company head quarter is in Mumbai. The R&D Center and cGMP-manufacturing facility is in the industrial heart of Ankleshwar city in Gujarat, 300 k.m. north of Mumbai, well connected by road, rail and air enabling swift cargo movement to the nearest major sea/airport being Mumbai.

## Custom Research & Manufacturing

### Customs Synthesis

ZCL undertakes customs synthesis of key intermediates and active substances for leading multinational companies worldwide. ZCL has expertise in diverse class of molecules and offer kilograms to ton lots in a cost effective manner.

### Contract Research

ZCL will support the customers in

- Route scouting
- Scale up (cGMP and non GMP)
- Analytical validation /analytical method development
- Process improvement
- Synthesis of impurities
- Small scale synthesis
- Process research
- Process safety data
- Process research

All projects undertaken will be under strict confidentiality and protection of intellectual property rights (IPR). The R&D lab is equipped with a cGMP kilo lab

### Custom manufacturing

ZCL undertakes custom manufacturing projects for intermediates and API's for innovator and generic companies. ZCL has expertise in handling complex molecules for large corporations who have always come back to us with repeat and new business.

ZCL research and development activities can be categorized into three classes:

- Research for in-house applications (production of APIs/ Intermediates and fine chemicals)
- Process Research & Development & Optimization.
- Contract research/custom synthesis.

We are fully equipped to handle the most complex requirements and adhere to health and safety norms.

### Our Chemistry Capabilities at Lab Scale

We are expertise in preparing small molecules at mg to gm to kg scale with the required high quality specifications, using diverse synthetic methodologies, which broadly includes

- Reactions with temperature range between  $-78^{\circ}\text{C}$  to  $+200^{\circ}\text{C}$
- High pressure and High temperature reactions
- Heterocyclic synthesis
- Library synthesis
- Scale-up of intermediates and final compounds
- Multi-stage synthesis
- Chiral synthesis and resolution by various techniques

### Chemistries handled at lab & commercial scale

- Grignard synthesis
- Epoxidation reactions
- Friedel-Craft reactions
- Acylation and Alkylation reactions
- Reductive amination
- Phase Transfer reactions
- Sand Meyer reactions
- Cyclization reactions
- Halogenation
- Oxidation reactions
- Reductions (by chemical and catalytically methods)
- Solid-Solid phase reaction
- Bromination



## Quality Systems

It is a policy of ZCL Chemicals Ltd., That commitment towards competency in quality, lead time and overall economic feasibility must satisfy our esteemed customers.

Continual improvement towards technical and after sales service aspects of all products shall be our motto.

Renovation towards the best shall be equally participated from all our employees to drive the organization towards achieving further success & growth in business.

Our quality consciousness shall be recognized through achieving excellent implementation level of ISO 9001: 2008, ISO 14001: 2004 and OHSAS 8001: 2007 norms.



## Environment, Health & Safety

At ZCL Chemicals, We aim to use natural resources efficiently and minimize the environmental impacts of our activities and products during their life cycles.

We manage our environment, health and safety issues using a management system aligned with recognized management system standards such as ISO 14001 and OHSAS 18001.

Our management system is based on a structured framework that starts with a policy. The policy is supported by standards, guidance materials, tools, training, recognition and audits that assist the business to manage environment, health, and safety at the sites throughout key business operations. Systematic audits assess sites' adoption of a management systems approach to manage their risks.

We are committed to providing safe workplaces in our company, associates and third-party personnel. Our impressive safety performance owes as much to management attention and well-trained employees as to elaborately engineered systems. Indeed, safety culture and behavior-based safety programs are increasingly seen as key to the continued improvement of occupational health and safety over the coming years.



## QEHS Policy

Reflecting its commitment to global leadership and excellence in quality, environment, health and safety, ZCL Chemicals Ltd, Ankleshwar, manufacturing advance intermediates, active pharmaceutical ingredients and specialty chemicals, is having guiding principles that commitment towards competency in quality, lead time, overall economic feasibility through environment health and safety must satisfy our esteemed customers.

It is policy of ZCL Chemicals Ltd, Ankleshwar, that

- All incidents are preventable, all identified health risks are containable and identified environmental impacts are preventable.
- Prevent injuries and occupational illness at the workplace.
- Enhance quality, environment, health and safety awareness.
- Comply with all statutory and regulatory laws and regulations for quality, environment, health and safety.
- Continual improvement towards quality, technology, after sales service aspects and up-gradation of environment, health and safety management systems to prevent / minimize pollution, occupational health and safety risks.
- Enhance visibility of top management towards conservation resources quality, environment, health and safety.
- Our quality, environment, health and safety consciousness shall be recognized through achieving excellent implementation level of ISO 9001: 2008, ISO 14001: 2004 and OHSAS 18001: 2007 norms.



### International Presence

U.S.A.	U.K.	Switzerland	Middle East
Canada	Belgium	Italy	South Africa
West Indies	France	Greece	Japan
Norway	Germany	Cyprus	Taiwan



**Registered Office**

**ZCL Chemicals Ltd.**

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Email: [marketing@zclchemicals.com](mailto:marketing@zclchemicals.com)

**Factory**

**ZCL Chemicals Ltd.**

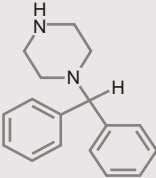
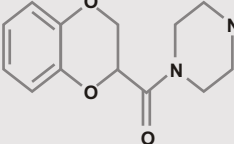
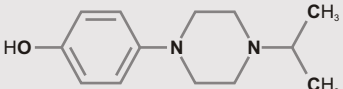
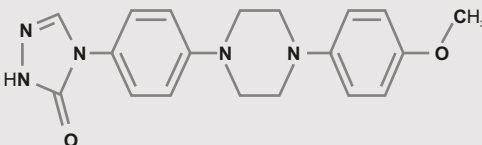
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Gujarat - India.

## Active Pharma Ingredients (API's)

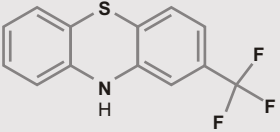
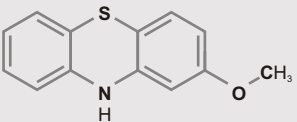
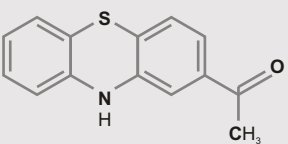
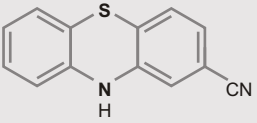
Product	CAS No.	Therapeutic Use	Status
Trifluoperazine HCL	440-17-5	Antipsychotic	C
Prochlorperazine Maleate	84-02-6	Antipsychotic	C
Phenylephrine HCL	61-76-7	Decongestant	P
Cinnarazine	298-57-7	Anti-histaminic	P
Triflupromazine	146-54-3	Antipsychotic	P
Hexetidine	141-94-6	Bacterial /Ani-fungal	P
Fluphenazine HCL	146-56-5	Antipsychotic	P

**C** = Commercial      **P** = Pilot

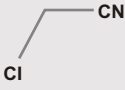
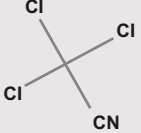
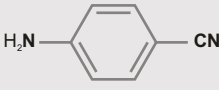
## Piperazines Derivatives

Product	CAS No.	End Use	Structure
N-Benzhydrylpiperazine	841-77-0	Cinnarizine	
N-(1,4-Benzodioxan-2-carbonyl)-piperazine	70918-00-2	Doxazosin	
N-Isopropyl-4-(4-hydroxyphenyl)-piperazine	67914-97-0	Terconazole	
2,4-Dihydro-4-[4-[4-(4-methoxyphenyl)-1-piperazinyl]-phenyl]-3H-1,2,4-triazol-3-one	74853-07-09	Itraconazole	

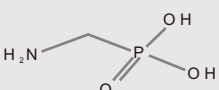
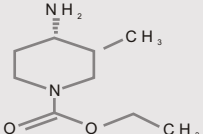
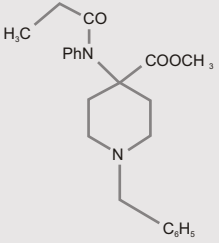
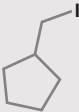
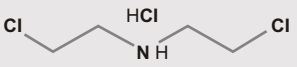
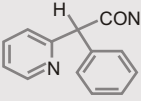
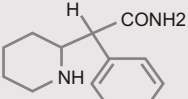
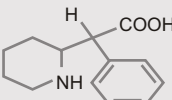
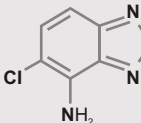
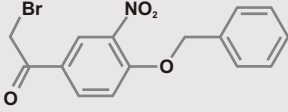
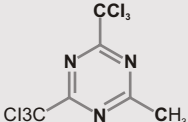

## Phenothiazine Derivatives

Product	CAS No.	End Use	Structure
2-(Trifluoromethyl)-phenothiazine	92-30-8	Trifluoperazine	
2-Methoxyphenothiazine	1771-18-2	Levomepromazine	
2-Acetylphenothiazine	6631-94-3	Acepromazine	
2-Cyanophenothiazine	38642-74-9	Pericyazine	

## Nitrile Derivatives

Product	CAS No.	End Use	Structure
Monochloroacetonitrile	107-14-2	Pharmaceuticals	
Trichloroacetonitrile	545-06-2	Candesartan	
4-Aminobenzonitrile	873-74-5	Pharmaceuticals	

## Miscellaneous Advanced Derivatives

Product	CAS No.	End Use	Structure
Aminomethyl phosphonic acid	1066-51-9	Pharmaceutical	
Cis-4-Amino-3-methoxy piperidine -1-carboxylic acid ethyl ester monohydrochloride	83863-71-2	Cisapride	
1-Benzyl-4-(methoxy carbonyl) -4-[1(1-oxopropyl)phenylamino] Piperidine oxalate	61085-73-2	Remifentanyl	
Cyclopentyl methyl iodide	27935-87-1	Pharmaceuticals	
Bis-(2-chloroethyl)-amine HCl	821-48-7	Pharmaceuticals	
a-Phenyl-a-(2-pyridyl)-acetamide	7251-52-7	Methyl Phenidate	
a-Phenyl-a-(2-piperidyl)-acetamide	19395-39-2	Methyl Phenidate	
a-Phenyl-a-(2-piperidyl)-acetic acid	19395-41-6	Methyl Phenidate	
5-Chloro-4-amino-2,1,3-(benzothiadiazole)	30536-19-7	Tizanidine	
2-Bromo-4'-benzyloxy-3'- Nitroacetophenone	43229-01-2	Formetorol	
2-Methyl-4,6-bis-(trichloromethyl) -1,3,5-triazine	949-42-8	Electrochemicals	
2-Butynoic acid	590-93-2	Pharmaceuticals	
5,6-Dihydro-4-hydroxy-6-methyl-4H-thieno- [2,3-b]thiopyran-2-sulfonamide-7,7-dioxide	120279-26-7	Dorzolamide	