

Welcome to Rays Chemical Corporation

Fine chemicals & Nutraceuticals

*Research & Process Development
and*

Chemistry related services...

About...

- ❑ Rays Chemical Corporation is an independent chemistry-based research & Development Laboratory that is reliable and flexible to its customer.
- ❑ Company was founded with 20yrs of immense experience in synthetic organic chemicals “Research & Development” background.
- ❑ The company is being operated with its own R&D and production activities that offers its customer and also offers a wide range of services.
- ❑ Rays also offers basic research in the field of Medicinal Chemistry molecules and synthesis of Impurity Standards & Catalysts.
- ❑ The company also involves chemicals trading business of fine & specialty chemicals serving to the customers in field of API, cosmetic, Agrochemical industries.



Key Chemistry Capabilities...

- ❑ Ray Chemical Corporation is specialized in process development & synthesis of organic compounds with state-of-art R&D lab facility.
- ❑ Well-known in handling of all types of organic reactions with pyrophoric, moisture and air sensitive chemicals. (Schlenk Technique)
 - ❖ Dry reactions with freshly prepared dry solvents under inert atmosphere.
 - ❖ High temperature reaction up to 300°C.
 - ❖ Cryogenic reaction till -78°C.
 - ❖ Organometallic reactions.
- ❑ Column Chromatography technique and High Vacuum Fractional Distillation.
- ❑ Scale-up and Manufacturing process equipment design and qualification
- ❑ Have experience in all type of organic reactions mg level to kilo level.
- ❑ Extensive chemical research activities for hard-to-get molecule in Fine & Specialty chemicals.
- ❑ Hazardous chemicals and effluent handling in terms of EHS regulation.

Products...

- Fine & Specialty chemicals in all related industries to the global market.
- Intermediates for API, cosmetic and Agrochemicals industries.
- Catalysts, ligands, metallocenes for various fields of polymerization, reaction conversion, chiral conversion.
- API Impurities synthesis.

Services...

- New Product Development
- Technology Development.
- Process optimization.
- Technology transfer.
- Toll manufacturing.
- Trading activities

Analytical Lab & Quality test...

- ❑ Reactions are monitored by TLC with UV light and other stains like KMnO₄, PMA, Ninhydrine, Iodine, etc.
- ❑ Quality testing is out-sourced with NABL certified analytical testing laboratories availing the reports in 24hrs time.
- ❑ Analytical data interpretation of ¹H NMR, ¹³C NMR, ²⁹Si NMR, ³¹P NMR, ⁹F NMR, Mass, DGA, XRD, LC-MS, GC-MS, HPLC, GC, IR, Specific Optical Rotation and melting point.
- ❑ Residual solvents by Head Space GC, Heavy Metals by ICP-OES or ICP-MS and polymer Number & weight average molecular weight by GPC.
- ❑ Wet analysis of all types titration, Moisture content, Loss on Drying, Sulphated Ash.
- ❑ Delivering the quality product with CofA and complete analytical package.



Contact...

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