

Summary

Detail-Oriented and highly motivated MSc graduate in Organic Chemistry seeking a challenging position in the field of organic synthesis and research, where strong analytical skills, laboratory expertise, and a solid understanding of chemical processes can be utilized for innovative problem-solving and product development.

Education

Examination	Institution	University	Percentage / CGPA
MSc. (June 2023)	Bhau Saheb Nene College Pen	Mumbai	9.09
BSc. (Nov 2021)	A.P.S.C College Nagothane	Mumbai	8.14
HSC (Feb 2018)	K.E.S Mehendale Highschool & Junior College Roha	Mumbai	61.38%
SSC (March 2016)	K.E.S Mehendale Highschool Roha	Mumbai	79.80 %

Work Experience

Fine Finish Industries Pvt Ltd, Taloja, Mumbai:

Research and Development Chemist, From 29 December 2023 till present day.

- Performing Material Analysis with Thermal Analyzer's like, DSC (Differential Scanning calorimeter), DMA (Dynamic Mechanical Analyzer) in which estimating Enthalpy, Tg, M.P., OIT, and Mechanical & Rheological, properties like Storage &. loss Modulus, Tan delta, Complex viscosity& viscoelastic properties by following ASTM, ISO, IS Standards test Method. & Interpretation of data.
- Prepared & Run Samples using GC-FID & Analyzing Chromatogram.
- Characterization of functional groups on FTIR(SHIMADZU)
- Performing all instrument intermediate check according to standard operating procedure to ensure instrument Reliability
- Maintain experimental Records, Instrument documents, Calibration Record. Preventive Maintenance, Intermediate check records
- Maintained accurate and detailed documentation, adhering to international standards and ensuring compliance with regulatory requirements.
- Participated in Inter laboratory Comparison (ILC) to assess the Consistency and Accuracy of our Analytical Method in Comparison with other laboratories in the field
- Testing of Viscosity of Resin & Hardner by using different Viscometers like Rheosys (micra) falling ball Viscometer, Brookfield Viscometer
- By following standard test Method estimating epoxy value, Amine value, Acid value, Aldehyde Content by manually titration.

Rashtriya Chemical and Fertilizer Ltd, Thal, Alibag:

Laboratory Assistant Chemical Plant. From 19 December 2022 to 18 December 2023

- Perform chemical analysis on raw material, intermediate product, process product and finished good ensuring accuracy and precision in result by following NABL Accreditation Protocols.
- Final product: like Urea in which estimation of biuret, turbidity on Spectrophotometer and moisture analysis, sieve analysis, strength, total nitrogen
- Methylamine analysis by checking their concentration by titration on Auto titrator and on gas Chromatography, estimation of moisture content in methanol on Karl Fischer
- Perform water testing using various wet chemistry techniques. Like Ph meter, conductivity meter and turbidity meter.
- Detailed study of product manufacturing process

Certification And Software Skills

- ISO 17025 • ISO 9001 • Measurement of uncertainty. • SAP. • MS Word, Excel, Power Point

Research Project

“Synthesis and characterization of benzimidazole catalyzed by boric acid”

Benzimidazole derivatives are interesting heterocycles and are found in many naturally occurring products and various drugs. They exhibit several pharmacological activities such as antitumor, diuretic, fungicidal, bactericidal, etc.

Academic Knowledge

- Synthesize organic one and two step preparation by using reflux condensation and purified the product By Chromatographic technique and vacuum, Steam distillation process
- Separation of binary and ternary mixtures and characterization of one of the compounds with the help of Micro scale techniques. Inorganic preparation (Synthesis and Characterization)

Skills

- Ability to Organize, keep detailed documentation & Record and achieve timely. Accurate, results.
- Proficient with lab instruments and test Methods Knowledge, of analytical equipment for Reaction Monitoring
- Quality management principles (ISO 17025:2017, ISO 9001:2015)
- Demonstrated understanding of several of the key Chemical, processing such as purification System, evaporation, Crystallization, drying etc.

Languages: • English. • Hindi • Marathi