

Mahesh Kumar Yadav

Present Address:

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Profile summery:

With over nine years of experience in the field of synthetic organic chemistry. I have demonstrated my expertise as Research scientist. my work involves conducting in depth research and analysis to develop new molecule. My ability to innovate and collaborate with cross functional teams has led to the advancement of key research initiatives.

CAREER OBJECTIVE:

Looking for a position that draws my hands-on industrial experiences in the area of Scientific Research and gives me the opportunity to engage in further professional development.

Professional experience

9+ years of experience at SRF limited, Bhiwadi, Rajasthan -301019, India.

- Research Scientist-II from Aug-2024 to till date.
- Research Scientist-I from Oct. 2020 to July-2024.
- Senior Research Associate from April 2018 to Sep.- 2020.
- Research Associate from July 2016 to March 2018
- Research Trainee from July 2015 to June 2016.

Roles/Responsibilities:

- Literature search through search engines (Scifinder, Esapce.net).
- Design of multistep scheme for molecules by non-infringing routes and successfully scale up multi step (twelve steps) process in first time right approach.
- Performing various multistep reaction which involves Chlorination, Fluorination, Halex, Nitration, Bromination, Grignard, Lithiation, Hydrogenation, Carbonylation, Hydro-dehalogenation, cyclization etc.
- Handling of various chemical like Cl₂, HF, Br₂, NH₃, H₂, Raney Ni, Pd/C, CO, BuLi etc.
- Purification of compounds using fractional distillation, crystallization, column chromatography, flash chromatography.
- Handling of pressure reactions in autoclave.
- Identification, preparation and isolation of impurities for standard preparation.
- Interpretation of data from GC-MS, ¹H NMR, ¹⁹F NMR, GC, HPLC, etc.
- Process development of selected route and its optimization for Scale-up. Troubleshooting of problems during development, optimization and scale-up batches.
- Preparation of sample preparation reports using tools like word, excel, chemsketch.

Patents

- Process for preparation of N- Substituted Hydroxypyrazole compounds.
- Continuous process for preparation of Halo acetamide.
- Process for preparation of substituted imines.
- Process for preparation of alkali and alkaline earth metal salt of haloalkyl carboxylic acid.
- Improved process for preparation of trifluorophenyl acetic acid.
- An improved process for the preparation of Anisole and its derivatives.

Educational Qualification:

- Master of Science (Organic Chemistry) with 78% from Central University of Rajasthan, Ajmer
- Bachelor of Science (Chemistry Hons.) with 70% from University of Rajasthan, Jaipur.

Personal Details

Date of Birth:	17.02.1995
Father's Name:	Shreeram Yadav
Gender:	Male
Nationality:	Indian
Marital status:	Single
Languages Known:	Hindi, English