

# The Complete Technology Book on Fine Chemicals

**Author:** NIIR Board of Consultants & Engineers

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Fine chemicals are the chemicals which are produced in comparatively small quantities and in relatively pure state. In chemical technology, a distinction is made between bulk chemicals, which are produced in massive quantities by standardized reactions, and fine chemicals, which are custom produced in smaller quantities for special uses. There is a very large number of fine chemicals that are produced, and thus the chemistries of producing them need to be flexible, whereas the atom economy is not as critical as for bulk chemicals. Some of the examples of fine chemicals are acetazolamide, albendazole, amitriptyline, azithromycin, benzothiazide, captopril, carbamazepine, chloroquine, etc. Owing to the small volume and often changing chemistry, fine chemicals production is more expensive, generates more waste and requires a higher research investment per kilogram. However, fine chemicals are produced in industrial quantities unlike research chemicals, which are produced only in the laboratory. Fine chemicals correspond to a distinct segment of the chemical industry, including low tonnage molecules (typically 10 to 20 Kt.). Pharmaceutical and Biological products, perfumes, photographic chemicals and electronic grade reagents are examples of fine chemicals. High purity reagents (99.999999% pure) are also classified as fine chemicals. Globally, the fine chemicals industry continues to be very fragmented in spite of some consolidation, partly due to the limited impact of economy of scale on the business. While, fine chemicals do offer limited albeit real opportunities for product differentiation, in contrast to commodity chemicals, they are unlike specialities. While, fine chemicals do offer limited albeit real opportunities for product differentiation, in contrast to commodity chemicals, they are unlike specialities, which offer much larger scope for standing out due to an enhanced contribution of technical services and application know how.

This book is a comprehensive reference on one of the most exciting and challenging segments of the modern chemical industry, and a practical guide for developing and succeeding in the multibillion fine chemicals business. Some fundamentals of this book are synonyms, molecular formula and other properties of fine chemicals like albendazole, amitriptyline, azithromycin, benzothiazide, captopril, carbamazepine, chloroquine, etc. This book is an invaluable resource for technologists, professionals and those who want to venture in this field.

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Optical Rotation

Isolation

#### 155. RANITIDINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Solubility (for HCl Salt)

Synthesis

#### 156. RESERPINE

Synonyms

Therapeutic Category

Alkaloid Description

Molecular Formula

Molecular Weight

Melting Point

Spectral Data

Optical Rotation

Solubility

Isolation

#### 157. RIFAMPIN

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Spectral Data

Solubility

Synthesis

#### 158. RITONAVIR

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Synthesis

#### 159. ROXITHROMYCIN

Synonyms

Therapeutic Category

Note  
Molecular Formula  
Molecular Weight  
Optical Rotation  
Synthesis

160. SALBUTAMOL

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Solubility  
Synthesis

161. SAQUINAVIR

Synonyms  
Note  
Molecular Formula  
Molecular Weight  
Optical Rotation  
Solubility  
Synthesis

162. SELENOMENTHIONINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Optical Rotation  
Synthesis

163. SERRATIOPEPTIDASE

Synonyms  
Therapeutic Category  
Synthesis

164. SILVER SULFADIAZINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Synthesis

165. SILDENAFIL

Synonyms  
Therapeutic Category  
Note  
Molecular Formula

Molecular Weight  
Synthesis

#### 166. SPIRONOLACTONE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Spectral Data  
Optical Rotation  
Solubility  
Synthesis

#### 167. STAVUDINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Synthesis

#### 168. STRYCHNINE

Synonyms  
Therapeutic Category  
Alkaloid Description  
Molecular Formula  
Molecular Weight  
Melting Point  
Spectral Data  
Optical Rotation  
Solubility  
Isolation

#### 169. SULFACETAMIDE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Solubility  
Synthesis

#### 170. SULFADOXINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Solubility



## Synthesis

### 171. SULFAMOXOLE

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Solubility

Synthesis

### 172. SULFAMETHOXAZOLE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Synthesis

### 173. SULFASALAZINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Spectral Data

Solubility

### 174. SUPEROXIDE DISMUTASE

Synonyms

Therapeutic Category

Note

Synthesis

### 175. TAXOL

Synonyms

Therapeutic Category

Alkaloid Description

Molecular Formula

Molecular Weight

Melting Point

Spectral Data

Optical Rotation

Synthesis

### 176. TERBUTALINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

## Synthesis

### 177. TETRACYCLINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Synthesis

### 178. TETRAMISOLE

Synonyms

Molecular Formula

Molecular Weight

Melting Point

Solubility

Synthesis

### 179. THIAZETAZONE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Spectral Data

Solubility

Synthesis

### 180. TIBOLONE

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Synthesis

### 181. TINIDAZOLE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Synthesis

### 182. TOLNAFTATE

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Solubility

## Synthesis

### 183. TOLBUTAMIDE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Synthesis

### 184. TRIMETHOPRIM

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Solubility

Synthesis

### 185. TRIPROLIDINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Spectral Data

Synthesis

### 186. TRIAMCINOLONE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Spectral Data

Optical Rotation

Synthesis

### 187. TRIAMTERENE

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Spectral Data

Synthesis

### 188. UBIQUINONE 10

Synonyms

Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Synthesis

189. VALPROIC ACID

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Boiling Point  
Density  
Refractive Index  
Solubility  
Synthesis

190. VERAPAMIL

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Boiling Point  
Refractive Index  
Solubility  
Synthesis

191. VINBLASTINE

Synonyms  
Therapeutic Category  
Alkaloid Description  
Molecular Formula  
Molecular Weight  
Melting Point  
Spectral Data  
Optical Rotation  
Solubility  
Synthesis

192. VINCRIStINE

Synonyms  
Therapeutic Category  
Alkaloid Description  
Molecular Formula  
Molecular Weight  
Melting Point  
Spectral Data  
Optical Rotation  
Synthesis

193. VINDESINE

Synonyms

Therapeutic Category  
Alkaloid Description  
Molecul

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**NIIR PROJECT CONSULTANCY SERVICES** , 106-E, Kamla Nagar, New Delhi-110007, India. **Email:** [npcs.india@gmail.com](mailto:npcs.india@gmail.com) **Website:** [NIIR.org](http://NIIR.org)

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