

# The Complete Technology Book on Fine Chemicals

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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.

## Contents

### 1. ACETAZOLAMIDE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular weight  
Melting Point  
Solubility  
Synthesis

## 2. ACYCLOVIR

Synonyms  
Therapeutic Category  
Molecular Formula  
Molecular Weight  
Melting Point

## 3. ALBENDAZOLE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

## 4. 7-AMINOCEPHALOSPORANIC ACID

## 5. 6-AMINOPENICILLANIC ACID

Synonyms  
Therapeutic Category  
Molecular Formula  
Molecular Weight  
Synthesis

## 6. AMITRIPTYLINE

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

## 7. AMPICILLIN

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

## 8. AMOXYCILLIN

Synonyms

Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Synthesis

#### 9. AMIODARONE

Synonyms  
Therapeutic Category  
Molecular Formula  
Molecular Weight  
Melting Point  
Spectral Data  
Synthesis

#### 10. AMLODIPINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

#### 11. AMILORIDE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

#### 12. AMINOPHYLLINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Synthesis

#### 13. APOMORPHINE HYDROCHLORIDE

Synonyms  
Uprima  
Therapeutic Category  
Molecular Formula  
Molecular Weight  
Melting Point  
Optical Rotation  
Solubility  
Synthesis

#### 14. L-ARGININE

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

#### 15. ARECOLINE

Synonyms  
Therapeutic Category  
Alkaloid Description  
Molecular Formula  
Molecular Weight  
Boiling Point  
Solubility  
Synthesis

#### 16. ASPIRIN

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

#### 17. ATENOLOL

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

#### 18. AZITHROMYCIN

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

#### 19. AZT

Synonyms  
Therapeutic Category

Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Spectral Data  
Optical Rotation  
Synthesis

#### 20. BACITRACIN

Synonyms  
Therapeutic Category  
Note  
Synthesis

#### 21. BERBERINE

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

#### 22. BETAMETHASONE

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

#### 23. BENZOTHAZIDE

Synonyms  
Therapeutic Category  
Molecular Formula  
Molecular Weight  
Melting Point  
Solubility  
Synthesis

#### 24. CAFFEINE

Synonyms  
Therapeutic Category  
Alkaloid Description  
Molecular Formula  
Molecular Weight  
Solubility  
Synthesis

## 25. CAPTOPRIL

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular weight

Melting Point

Optical Rotation

Solubility

Synthesis

## 26. CARBIDOPA

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Synthesis

## 27. CAPSAICIN

Synonyms

Therapeutic Category

Alkaloid Description

Molecular Formula

Molecular Weight

Melting Point

Spectral Data

Solubility

Synthesis

## 28. CARBAMAZEPINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Solubility

Synthesis

## 29. CARBOPLATIN

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Solubility

Spectral Data

Solubility

Synthesis

### 30. L-CARNITINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Solubility

Synthesis

### 31. CEFACLOR

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Spectral Data

Solubility

Synthesis

### 32. CEFAZOLINE

Synonyms

Therapeutic category

Note

Molecular Formula

Molecular Weight

Melting Point

Spectral Data

Solubility

Synthesis

### 33. CEFOTAXIME

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Optical Rotation

Synthesis

### 34. CEFTIZOXIME

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Synthesis

### 35. CEFUROXIME

Synonyms

Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Optical Rotation  
Spectral Data  
Synthesis

#### 36. CETIRIZINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

#### 37. CEPHALEXIN

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Synthesis

#### 38. CLOTRIMAZOLE

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

#### 39. CLOXACILLIN

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

#### 40. CHITOSAN

Synonyms  
Therapeutic Category  
Molecular Formula  
Molecular Weight  
Synthesis

#### 41. CHLORDIAZEPOXIDE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

#### 42. CHLOROQUINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

#### 43. CHLORPROMAZINE

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

#### 44. CHLOROPROPAMIDE

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

#### 45. CHLORAMPHENICOL

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

#### 46. CHLOROHEXIDINE

Synonyms  
Therapeutic Category

Note  
Molecular Formula  
Molecular Weight  
Melting point  
Solubility  
Synthesis

#### 47. CHONDROITIN SULFATE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Synthesis

#### 48. CHROMIUM PICOLINATE

Synonyms  
Therapeutic category  
Note  
Molecular Formula  
Molecular Weight  
Spectral Data  
Solubility  
Synthesis

#### 49. CINNARIZINE

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

#### 50. CIMETIDINE

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

#### 51. CISPLATIN

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting point  
Solubility

## Synthesis

### 52. CLIDINIUM BROMIDE

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Synthesis

### 53. COCAINE

Synonyms

Therapeutic Category

Alkaloid Description

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Solubility

Synthesis

### 54. COLCHICINE

Synonyms

Therapeutic Category

Alkaloid Description

Molecular Formula

Molecular Weight

Melting point

Optical Rotation

Spectral Data

Solubility

Isolation

### 55. CREATINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Synthesis

### 56. CYCLANDELATE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Boiling Point

Solubility

Synthesis

### 57. CYPROHEPTADINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

#### 58. DANAZOL

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

#### 59. DELAVIRDINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

#### 60. DEXAMETHASONE

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

#### 61. DEXTROPROPOXYPHENE

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

#### 62. DEXTROMETHORPHAN

Synonyms  
Therapeutic Category  
Alkaloid Description

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Synthesis

63. DEXEDRINE

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Synthesis

64. DIAZEPAM

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Solubility

Synthesis

65. DHEA

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Solubility

Synthesis

66. DICLOFENAC

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Synthesis

67. DIDEOXYCYTIDINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Spectral Data

Synthesis

68. DIDEOXYINOSINE

Synonyms

Therapeutic Category

Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Spectral Data  
Synthesis

#### 69. DIETHYLCARBAMAZINE

Synonyms  
Therapeutic Category  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

#### 70. DIGOXIN

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

#### 71. DILTIAZEM

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

#### 72. DOXYCYCLINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Synthesis

#### 73. ENALAPRIL

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

#### 74. EMETINE

Synonyms

Therapeutic Category

Alkaloid Description

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Solubility

Isolation

#### 75. ERYTHROMYCIN

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Spectral Data

Solubility

Synthesis

#### 76. ETHAMBUTOL

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Solubility

Synthesis

#### 77. ETIDRONIC ACID

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Solubility

Synthesis

#### 78. FAMOTIDINE

Synonyms

Therapeutic Category

Note

Synthesis

Molecular Formula

Molecular Weight

Melting Point

Solubility

79. FLURAZEPAM

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Synthesis

80. FLUCONAZOLE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Synthesis

81. FLUOXETIN

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Synthesis

82. FLUOCINOLONE ACETONIDE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Spectral Data

Synthesis

83. FRUSEMIDE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Solubility

Synthesis

84. FURAZOLIDONE

Synonyms

Therapeutic Category

Note

Molecular Formula  
Molecular Weight  
Melting Point  
Solubility  
Synthesis

85. GENTAMICIN

Synonyms  
Therapeutic Category  
Melting Point  
Optical Rotation  
Solubility  
Synthesis  
Germination Stage  
Fermentation Stage

86. GLUCOSAMINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Synthesis

87. GLYBENZCYCLAMIDE

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

88. GRISEOFULVIN

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

89. HEPARIN

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Optical Rotation

Isolation  
Synthesis

#### 90. HYDROCORTISONE

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

#### 91. HYDROCHLOROTHIAZIDE

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

#### 92. 5-HYDROXYTRYPTOPHAN

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Optical Rotation  
Synthesis

#### 93. IBUPROFEN

Synonyms  
Therapeutic Category  
Molecular Formula  
Molecular Weight  
Melting Point  
Solubility  
Synthesis

#### 94. INDINAVIR

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

95. ISOSORBIDE MONONITRATE

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Synthesis

96. ISOXSUPRINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Synthesis

97. ISONIAZID

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Spectral Data

Solubility

Synthesis

98. INSULIN

Synonyms

Therapeutic Category

Description

Solubility

Isoelectric Point

Isolation

99. LAMIVUDINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Synthesis

100. LEVODOPA

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Spectral Data

Solubility

## Synthesis

### 101. LIGNOCAINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Boiling Point

Solubility

Synthesis

### 102. LIPOIC ACID

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Spectral Data

Solubility

Synthesis

### 103. LOMEFLOXACIN

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Synthesis

### 104. LOPERAMIDE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Solubility

Synthesis

### 105. L-LYSINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Solubility

Synthesis

### 106. MDMA

Synonyms

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

#### 107. MEBENDAZOLE

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

#### 108. MEFENAMIC ACID

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

#### 109. MELATONIN

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

#### 110. METHYLSULFONYLMETHANE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Boiling Point  
Spectral Data  
Solubility

#### 111. METFORMIN

Synonyms  
Therapeutic Category  
Note

Molecular Formula  
Molecular Weight  
Melting Point  
Solubility  
Synthesis

#### 112. METRONIDAZOLE

Synonyms  
Therapeutic Category  
Molecular Formula  
Molecular Weight  
Melting Point  
Solubility  
Synthesis

#### 113. METOCLOPRAMIDE

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

#### 114. METPOROLOL

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Spectral Data  
Solubility  
Synthesis

#### 115. MICONAZOLE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

#### 116. MITOXANTRONE

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

## 117. MORPHIN AND CODEINE

Synonyms

For Codeine

Therapeutic Category

Alkaloid Description

For Codeine

Molecular Formula

Molecular Weight

Melting Point

Codeine

Optical Rotation

Solubility

Synthesis

## 118. MUPIROCIN

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Spectral Data

Synthesis

## 119. NALIDIXIC ACID

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Solubility

Synthesis

## 120. NAPROXEN

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Synthesis

## 121. NANDROLONE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Optical Rotation

Spectral Data  
Solubility  
Synthesis

#### 122. NEVIRAPINE

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

#### 123. NIMESULIDE

Synonyms  
Therapeutic Category  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

#### 124. NIFEDIPINE

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

#### 125. NITRAZEPAM

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

#### 126. NORETHISTERONE

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

127. NORFLOXACIN

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Solubility

Synthesis

128. OFLOXACIN

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Synthesis

129. OXYMETAZOLINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular weight

Melting Point

Synthesis

130. OXYTETRACYCLINE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Synthesis

131. OMEPRAZOLE

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Melting Point

Synthesis

132. OXYPHENBUTAZONE

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Solubility

## Synthesis

### 133. PANCURONIUM BROMIDE

Synonyms

Therapeutic Category

Note

Molecular Formula

Synthesis

Molecular Weight

Melting Point

Solubility

### 134. PARACETAMOL

Synonyms

Therapeutic Category

Molecular formula

Molecular Weight

Melting Point

Density

Spectral Data

Solubility

Synthesis

### 135. PAPAVERINE

Synonyms

Therapeutic Category

Alkaloid Description

Molecular Formula

Molecular Weight

Melting Point

Spectral Data

Solubility

Synthesis

### 136. PENICILLIN G

Synonyms

Therapeutic Category

Note

Molecular Formula

Molecular Weight

Synthesis

### 137. PENTAZOCINE

Synonyms

Therapeutic Category

Molecular Formula

Molecular Weight

Melting Point

Synthesis

### 138. PENTOXIFYLLINE

Synonyms

Therapeutic Category

Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Spectral Data  
Solubility  
Synthesis

#### 139. L-PHENYLALANINE

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

#### 140. PHENOBARBITONE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point

#### 141. PHENIRAMINE

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

#### 142. PHENYLBUTAZONE

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

#### 143. PHYSOSTIGMINE

Synonyms  
Therapeutic Category

Alkaloid Description  
Molecular Formula  
Molecular Weight  
Melting Point  
Optical Rotation  
Solubility  
Synthesis

#### 144. PIROXICAM

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point  
Synthesis

#### 145. PREDNISOLONE

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

#### 146. PROCHLORPERAZINE

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

#### 147. PROPANOLOL

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point

#### 148. PROCAINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Melting Point

Solubility  
Synthesis

#### 149. POVIDONE-IODINE

Synonyms  
Therapeutic Category  
Note  
Molecular Formula  
Molecular Weight  
Appearance  
Solubility  
Synthesis

#### 150. PYRANTEL

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

#### 151. PYRIMETHAMINE

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

#### 152. PYRAZINAMIDE

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

#### 153. QUINIDINE

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

#### 154. QUININE

Synonyms

Therapeutic Category

Alkaloid Description

Molecular Formula

Molecular Weight

Melting Point

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. THIACTAZONE

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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