

**NEW!** Plan, carry out, and optimize—without consulting the literature!

# CRC HANDBOOK OF OPTICAL RESOLUTIONS VIA DIASTEREOMERIC SALT FORMATION

## DECADES OF EXPERIENCE AMASSED IN A SINGLE VOLUME

Optically active compounds are gaining ever-increasing importance in organic chemistry, both in the academic and the industrial arenas. The rational synthesis of the growing number of chiral chemicals, drugs, and natural products demands efficient methods for producing these compounds in an enantiomerically, highly pure form. Despite the available alternative techniques, optical resolution via diastereomeric salt formation remains the most widely used method of preparing pure enantiomers.

The **CRC Handbook of Optical Resolutions via Diastereomeric Salt Formation** is the first book to exclusively address this important organic chemical process. It provides fast, one-stop access to a wealth of information, including all of the available data on 100 resolving agents, a list of 500 optically active compounds available in bulk along with their suppliers, data on more than 3,500 resolutions, and 4,200 citations.

This handbook helps answer virtually any question that may arise during the development of a new resolution process.

**Which resolving agent and solvent should I use under these conditions?**

**How can I separate the diastereomers?**

**How can I optimize a resolution process?**

**How do I determine enantiomeric purity?**

**Which supplier has the resolving agent I need?**

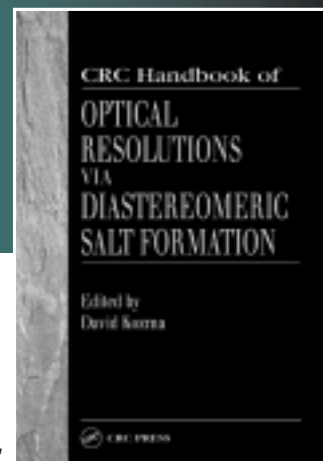
**For a racemate already resolved, what were the resolving agent, solvent, and relevant citation?**

This is the first book to deal exclusively with all aspects of this important organic chemical process, both theoretical and practical. With an abundance of analyzed examples, this single, authoritative reference provides all of the information you need to perform, develop, and optimize optical resolutions via diastereomeric salt formation.

Editor-in-Chief:

**Dávid Kozma**

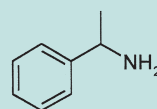
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## FEATURES

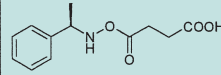
- ✿ All of the information needed to perform, develop, and optimize optical resolutions through diastereomeric salt formation
- ✿ A database of resolving agents, resolved compounds sorted according to the resolving agent, and suppliers of commercially available resolving agents
- ✿ Descriptions of several resolution processes
- ✿ A practical guide for determining enantiomeric purity
- ✿ More than 100 tables, 4,200 citations, and data on 3,500 resolutions

*see reverse for contents and ordering information*



7.20

Table 7.4. Resolution of 7.20 by distillation

Resolving agent	Base:acid molar ratio	O.p. of distillate
tartaric acid	2:1	22.0 %
DBTA	4:1	0.0 %
	2:1	2.4 %
(S)-mandelic acid	2:1	5.4 %

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# Contents of - CRC HANDBOOK OF OPTICAL RESOLUTIONS VIA DIASTEREOMERIC SALT FORMATION

## INTRODUCTION

### BASIC CONCEPTS AND NOMENCLATURE OF STEREOCHEMISTRY

Chirality, Enantiomers and Diastereomers  
Stereochemical Nomenclature  
Principles of Separation of Diastereomers and Enantiomers

### RESOLUTION BY FORMATION AND FRACTIONAL CRYSTALLISATION OF DIASTEREOMERIC SALTS

The Concept of Resolvability  
Stoichiometry of Resolution  
Resolution with One Equivalent of Resolving Agent  
Resolution with Half Equivalent of Resolving Agent in Combination with an Achiral Additive  
Use of Half Molar Equivalent of Resolving Agent without an Achiral Additive  
Salt-Salt Resolution  
Resolution with the Enantiomer of the Resolving Agent  
Reciprocal Resolution  
Mutual Resolution  
Resolution with Difunctional Resolving Agents  
Resolution of Amphoteric racemates  
Resolution by Salt Formation of Compounds Lacking Acidic or Basic Groups  
Asymmetric Transformations during Resolution by Salt Formation

### RESOLVING AGENTS

Basic Resolving Agents  
Acidic Resolving Agents (Including Amino Acids)

## RESEARCH ON RESOLVING AGENTS

Attempts to Devise A Generally Applicable Resolving Agent  
Correlation of the Efficiency of Resolution with the Structure of Racemate and Resolving Agent.  
Resolutions with a Derivative of the Racemate  
Resolutions with a Mixture of Structurally Similar Resolving Agents

### SELECTION OF THE RESOLVING AGENT

#### SELECTION OF THE RESOLVING AGENT BY EXPERIMENTATION

Selection of the Resolving Agent by Small-Scale Preliminary Preparative Experiments  
Selection of the Resolving Agent by Combined Application of Several Resolving Agents  
Selection of the Resolving Agent by Distillation Tests  
Selection of the Resolving Agent Based on the Principle of Maximum Similarity

#### SELECTION OF THE RESOLVING AGENT BY STATISTICAL EVALUATION SELECTION OF A RESOLVING AGENT BASED ON THE DETERMINATION OF PHYSICO-CHEMICAL PARAMETERS

Solubility  
Selection of a Resolving Agent Based on Melting Point Phase Diagrams of Diastereomeric Salt Pairs  
Calculation of Resolvability by DSC of a Mixture of Diastereomeric Salts Formed from the Racemate  
Determination of the Optical Rotation of Diastereomeric salts  
SELECTION OF THE RESOLVING AGENT BASED ON THEORETICAL CONSIDERATIONS

## RESOLUTION IN PRACTICE, SELECTION OF THE OPTIMAL PARAMETERS

Reacting the Components  
Initiation of Crystallisation  
Role of Temperature in Resolution  
Further Purification of Diastereomeric Salts with the Aid of a Chiral

Chiral

Additive  
Recovery of the Components from the Diastereomeric Salts  
Upgrading of Optical Purity without a Chiral Additive (Enantiomeric Enrichment)

### ALTERNATIVE METHODS OF RESOLUTION BY DIASTEREOMERIC SALT FORMATION

Classification of Alternative Resolution Processes by Type of Phase Transition

Resolution by Distillation  
Resolution by Extraction  
Resolution by Supercritical Extraction  
Resolution by Sublimation

Mechanical Separation of Diastereomeric Salt Mixtures

### DETAILED DESCRIPTIONS OF SELECTED RESOLUTIONS

APPENDIX 1: Resolutions Ordered According to the Resolving Agent

APPENDIX 2: Commercially Produced Resolving Agents and Optically Active Industrial Products which may be Eligible as Resolving Agents

APPENDIX 3: Chiral Selective Chromatographic Analysis

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