

Introduction

This reference book describes the production/isolation processes of 2267 active pharmaceutical substances (including the syntheses of their intermediates) that are or have been marketed. In order to illustrate what particular information can be drawn from the book a typical monograph is depicted below and labelled. It is self-explanatory.

The frequently-used abbreviations are explained in a separate list, q.v. see front and back endpapers.

With respect to the names of reagents and intermediates in the course of the syntheses the authors tried to use the names found in the catalogues of the commercial providers of fine chemicals, e.g. Sigma-Aldrich, otherwise the Chemical Abstracts Names are given.

In addition to the respective patents and publications in journals several standard reference books for Pharmaceuticals and Fine Chemicals were used and sometimes also cited. The most important sources are given here:

- The Merck Index, 12 ed., Merck & Co., Inc.; NJ 1996
abbrev.: Merck Index
- Z. Budesinsky and M. Protiva, *Synthetische Arzneimittel*, Akademie-Verlag, Berlin 1961
abbrev.: Budesinsky-Protiva
- G. Ehrhart, H. Ruschig, *Arzneimittel*, vols. 1–5, Verlag Chemie, Weinheim 1972
abbrev.: Ehrhart-Ruschig

- Index Nominum, international drug directory, ed. by Swiss Pharmaceutical Society, 1992/93
- A. Kleemann, E. Lindner, J. Engel, *Arzneimittel-Fortschritte 1972–1985*, VCH Verlagsgesellschaft mbH, Weinheim 1987
- D. Lednicher, L. A. Mitscher, *The Organic Chemistry of Drug Synthesis*, vols. 1–6, John Wiley & Sons, New York 1977–1999
- Ullmanns Encyclopädie der technischen Chemie, 3. and 4. edition, Verlag Chemie Weinheim;
- Ullmann's Encyclopedia of Industrial Chemistry, 5. ed., vols. A1–A28, B1–B8, VCH Verlagsgesellschaft mbH, Weinheim 1985–1997
abbrev.: Ullmanns Encycl. Techn. Chem.
- Ullmann's Encyclopedia of Industrial Chemistry, 6. ed., on CD-ROM, 1999 and 2000
- M. Negwer, *Organic-chemical drugs and their synonyms*, Akademie-Verlag, Berlin 1994
- USP Dictionary of USAN and International Drug Names, US Pharmacopeia, Rockville, MD 1998

The acute toxicity data were in most cases taken from different data banks or other secondary sources, so no guarantee can be given for validity.

For information regarding pharmaceutical dosage forms see preface, footnote 12.