

Landolt-Börnstein

Numerical Data and Functional Relationships in Science and Technology

New Series / Editor in Chief: W. Martienssen

Group IV: Physical Chemistry

Volume 14

Microporous and other Framework Materials with Zeolite- Type Structures

Subvolume D

**Zeolite-Type Crystal Structures and their Chemistry.
Framework Type Codes LTA to RHO.**

Editors and Authors

R.X. Fischer, W.H. Baur



Springer

ISSN 1615-2018 (Physical Chemistry)

ISBN-10 3-540-44381-9 Springer Berlin Heidelberg New York

ISBN-13 978-3-540-44381-0 Springer Berlin Heidelberg New York

Library of Congress Cataloging in Publication Data

Zahlenwerte und Funktionen aus Naturwissenschaften und Technik, Neue Serie

Editor in Chief: W. Martienssen

Vol. IV/14D: Editors: R.X. Fischer, W.H. Baur

At head of title: Landolt-Börnstein. Added t.p.: Numerical data and functional relationships in science and technology.

Tables chiefly in English.

Intended to supersede the Physikalisch-chemische Tabellen by H. Landolt and R. Börnstein of which the 6th ed. began publication in 1950 under title:

Zahlenwerte und Funktionen aus Physik, Chemie, Astronomie, Geophysik und Technik.

Vols. published after v. 1 of group I have imprint: Berlin, New York, Springer-Verlag

Includes bibliographies.

1. Physics--Tables. 2. Chemistry--Tables. 3. Engineering--Tables.

I. Börnstein, R. (Richard), 1852-1913. II. Landolt, H. (Hans), 1831-1910.

III. Physikalisch-chemische Tabellen. IV. Title: Numerical data and functional relationships in science and technology.

QC61.23 502'.12 62-53136

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Printed in Germany

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Cover layout: Erich Kirchner, Heidelberg

Typesetting: Authors and Redaktion Landolt-Börnstein, Darmstadt

Printing and binding: AZ-Druck, Kempten

SPIN: 1075 7073

63/3020 - 5 4 3 2 1 0 – Printed on acid-free paper

Editors and Authors

R.X. Fischer

Fachbereich Geowissenschaften
Kristallographie
Universität Bremen
Klagenfurter Str.
Geo II, Raum 2340
D-28359 Bremen
e-mail: rfischer@uni-bremen.de

W.H. Baur

Department of Chemistry
Northwestern University
2145 Sheridan Road
Evanston, IL 60208, USA
e-mail: whbaur@lycos.com

Landolt-Börnstein

Editorial Office

Gagernstr. 8, D-64283 Darmstadt, Germany
fax: +49 (6151) 171760
e-mail: Redaktion.Landolt-Boernstein@springer.com

Internet

<http://www.landolt-boernstein.com>

Preface

This is the third volume of our systematic presentation of the crystal structures and the chemistry of zeolite-type materials. It covers the framework type codes from LTA to RHO. The total number of codes to be dealt with has meanwhile climbed to 167.

When we began the project 12 years ago there were about 90 known different topologies for zeolite-type crystal structures. At the time we estimated (possibly underestimated) that there would be ca. one thousand crystal structure determinations of zeolites. Meanwhile we know that as of now more than 4,200 crystal structures of zeolites are recorded in the literature and have been put by us into ZeoBase, the database from which we draw for these volumes. About four hundred of these are additional data referring to zeolite framework topologies belonging into volumes B and C. These, together with about nine hundred zeolite structures crystallizing in 45 topologies with codes from RON to ZON will be described in subsequent volumes of this series as well as new entries and new framework types published and released between June 2006 and the copy deadline for the last volume.

We are aiming here at a complete, systematic and standardized description of all presently known zeolites and zeolite-like materials. For remarks on the background of this work see the preface to volume B.

The preparation of these volumes was a formidable task. Despite our strenuous efforts, we think it is impossible to present such a wealth of material without oversights, mistakes and typographical errors. We welcome the readers to point out to us any errors of omission or commission which they find here.

At this time we wish to acknowledge the immediate help which we received in preparing these volumes. Thus we thank Johannes Birkenstock (Bremen) for his efforts persuading Word to properly format turned tables, and U. Müller (Marburg) for providing a preprint of part 3 of the International Tables for Crystallography, "Relations between the Wyckoff positions of the space groups and their maximal subgroups" which was very helpful for the derivation of the atomic site relationships until volume A1 of the International Tables went to press. We are indebted to all authors of the original papers who responded to our inquiries concerning details in their papers (most of the authors of structural papers on zeolites are still among the living). We thank Lynne McCusker and Christian Baerlocher from the ETH Zürich, who are maintaining the IZA-Web site, for their gracious help in supplying additional information when needed by us for this volume.

Bremen/ Evanston, June 2006

Reinhard X. Fischer
Werner H. Baur

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Data

LTA	Linde Type A	15
LTL	Linde Type L	53
LTN	Linde Type N	61
MAR	MARinellite	71
MAZ	MAZzite	81
MEI	ZSM-ElEighteen	88
MEL	ZSM-ELeven	94
MEP	MElanoPhlogite	05
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NON	NON asil-[4 ¹ 5 ⁸]	326
NSI	Nu-6(2) New (ICI, Imperial Chemical Industries) with sequence number SIx	345
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OWE	UiO-28 (Universitiy of O slo), sequence number tW enty E ight	379
PAR	PAR théite	386
PAU	PAU lingite	392
PHI	PHI llipsite	412
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