

Thermoanalytical Characterization of Pharmaceuticals

NETZSCH Annual 2000

Application Volume

The NETZSCH Annual 2000 Thermoanalytical Characterization of Pharmaceuticals (engl.) is based on decades of experience of the renowned specialists Dr. E. Marti, Solvias AG (former Novartis), Basle / Switzerland, and Prof. Dr. W.-Y. Ma, Shanghai Institute of Pharmaceutical Industry, Shanghai / P.R.C., in the fields of Pharmaceutical Research and Technology, as well as E. Kaisersberger and Dr. G. Kaiser, NETZSCH "Thermal Analysis Applications", NETZSCH-Gerätebau GmbH, Selb / Germany.

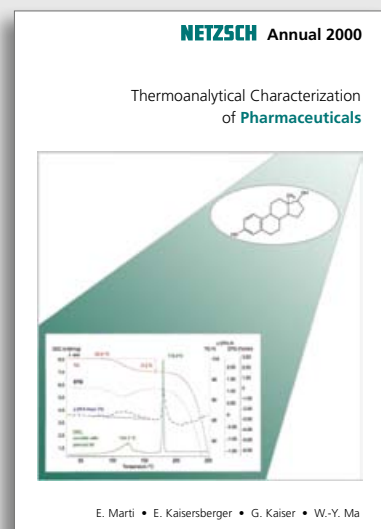
Selected examples of drug substances and excipients are outlined in this workbook, which is based on thermoanalytical measurements using DSC, thermobalance, TG-FTIR, TG-DSC-MS and c-DTA.

Each substance is introduced by literature data and pharmaceutical use. Special attention having been paid to the presentation of easily understandable experimental results.

In addition, the collected experimental facts have been evaluated by different software programs. Routines have been applied for the determination of melting points, enthalpy of fusion and crystallization, dehydration, purity, kinetic data, Gibbs free energy function, melting range and molten fraction. The importance of gas analysis by FTIR and mass spectrometry has been underlined.

The results obtained with the performed investigations are brought into the context of thermodynamics, physical chemistry and solid-state or material sciences.

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Authors

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