

Wechselwirkungen in Moleklkristallen, 147 [1, 2].

Isostrukturelle Wirt/Gast-Einschlu-Verbindungen von N,N'-Ditosyl-*p*-phenylendiamin mit Aceton, Cyclopentanon, Cyclopent-2-en-1-on, 1,3-Dioxolan, Tetrahydrofuran und 2,5-Dihydrofuran

Interactions in Molecular Crystals, 147 [1, 2].

Isostructural Host/Guest-Inclusion Compounds of N,N'-Ditosyl-*p*-phenylenediamine with Acetone, Cyclopentanone, Cyclopent-2-ene-1-one, 1,3-Dioxolane, Tetrahydrofurane, and 2,5-Dihydrofurane

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Six isostructural inclusion compounds of various ketone and ether guest molecules into the hydrogen-bonded host-matrix of N,N'-ditosyl-*p*-phenylenediamine are presented. Crystal growth, structure determinations as well as the arrangement within the clathrates formed is reported and discussed in detail. Packing coefficients and especially the volume ratios between the guest-containing channels and the unit cells allow to estimate the size-limit of guest molecules, which can cocrystallize. Additional crystal growth experiments yield information concerning other types of guest molecules, inclusion from solvent mixtures and guest removal as well as guest exchange processes observed for the N,N'-ditosyl-*p*-phenylenediamine host matrix.

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