

Wechselwirkungen in Molekülkristallen, 153 [1 - 3].

Wirt/Gast-Einschlußverbindungen von N,N'-Ditosyl-*p*-phenylendiamin-Derivaten: Die Kristallstrukturen von N,N'-Di(4-ethyl-benzosulfuryl)-*p*-phenylendiamin und seinen Aggregaten mit Aceton und Cyclopentanon

Interactions in Molecular Crystals, 153 [1 - 3]. Host/Guest-Inclusion Compounds of N,N'-Ditosyl-*p*-phenylenediamine Derivatives: The Crystal Structures of N,N'-Di(4-ethyl-benzosulfuryl)-*p*-phenylenediamine and its Aggregates with Acetone and Cyclopentanone

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A class of novel inclusion compounds based on the hydrogen-bonded host lattice of N,N'-ditosyl-*p*-phenylenediamine is the starting point for the investigation of derivatives such as N,N'-di(4-ethyl-benzosulfuryl)-*p*-phenylenediamine. Structures of both the guest-free compound and of its clathrates with acetone as well as cyclopentanone suggest a considerable enthalpy of formation contribution from the conformational change of the sulfonamide backbone on adaption of the guest molecules. The host channels of the N,N'-ditosyl-*p*-phenylenediamine inclusion compounds are compared to those of the ethyl derivative elongated by two H₂C substituent units, and the crystal packing in its cyclopentanone clathrate with an unexpected type of bulged channels is emphasized.

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