



On Dimensionality of Halogen-Bonded Thiophene Solid-State Assemblies

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Auteur	Barrès, Anne-Lise [1], Allain, Magali [2], Frère, Pierre [3], Batail, Patrick [4]
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Résumé en anglais	We report on the structures of three dibromothiophene compounds (4 , 5 , and 12) and the analysis of the patterns of self-assembly in the solid state by C — Br···Br — C halogen bonds of a selected set of 16 di- or poly-bromine — (poly)thiophene monomers sorted according to the dimensionality of their halogen-bonded, extended frameworks thereby identifying <i>syn</i> - or <i>anti</i> -strings and layers. We conclude that in 1 , 2 , 9 , and 10 , the antiparallel orientation of successive C — Br···Br — C halogen-bonded dibromothiophene units along extended <i>anti</i> -strings is linked to the occurrence of solid-state polymerization.
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