

Publication

A new twist to 3,6-bis(2-pyridyl)-1,2,4,5-tetrazine complexes of silver(I)

JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)**ID** 43261**Author(s)** Constable, Edwin C.; Housecroft, Catherine E.; Neuburger, Markus; Reymann, Sebastien; Schaffner, Silvia**Author(s) at UniBasel** [Constable, Edwin Charles](#) ; [Housecroft, Catherine](#) ; [Neuburger, Markus](#) ;**Year** 2008**Title** A new twist to 3,6-bis(2-pyridyl)-1,2,4,5-tetrazine complexes of silver(I)**Journal** CrystEngComm**Volume** 10**Number** 8**Pages / Article-Number** 991-995

The dinuclear complex $[\text{Ag}_2(1)(3)](2+)$ has been isolated as the triflate salt from the reaction of silver(I) triflate with 3,6-bis(2-pyridyl)-1,2,4,5-tetrazine (1) in acetonitrile. The single crystal structure of $[\text{Ag}_2(1)(3)][\text{CF}_3\text{SO}_3](2) \cdot \text{MeCN}$ reveals a trigonal prismatic coordination environment for each silver(I) centre. The isolation of $[\text{Ag}_2(1)(3)][\text{CF}_3\text{SO}_3](2) \cdot \text{MeCN}$ contrasts with our earlier observation that crystalline $[\text{Ag}_2(1)(2)][\text{CF}_3\text{SO}_3](2)$ can be isolated from a 1 : 1 reaction of AgCF_3SO_3 . These data are discussed in the context of other published observations of similar systems, and the present results suggest that the reasons governing the assembly of a given structural architecture between Ag^+ and 1 are more subtle than simply the choice of anion.

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