

W0424

Systematics of Non-Merohedral Twinning of Chiral Aziridines. Maren Pink, Dept. of Chemistry, Indiana Univ., Bloomington, IN, 47405, USA.

Single crystal X-ray diffraction measurements of two chiral aziridines differing in two of three substituents around a common three membered ring were found to be non-merohedrally twinned with two independent molecules per asymmetric unit; solving the structures was problematic. A third crystal of a related non-chiral aziridine was not twinned, had $Z' = 1$, and refined without difficulties. This series is investigated to identify systematic differences in molecular structure and chirality that might affect the crystal packing. Lacking the possibility to pack efficiently with their inverted counterparts, the two twinned structures circumvent the packing-frustration and the absence of crystallographic inversion symmetry via twinning. I would like to thank Amie Williams and Jeffrey Johnston for providing the crystals.