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Molecule Symmetry and Crystallographic Disorder. J.R. Deschamps[1]*, D. Parrish[1], N. Zaveri[2], [1]Code 6030, Naval Research Laboratory, 4555 Overlook Ave., Washington, DC 20375, deschamps@nrl.navy.mil; [2]SRI International, Biosciences Div., 333 Ravenswood Ave., Menlo Park, CA 94025.

The effect of molecular symmetry on disorder in the crystallographic structure is examined in a series of N-(4-piperidinyl)-2-indolinones. In all of the cases examined the indolin-2-one moiety lies in a mirror plane and the piperidinyl moiety is perpendicular to this plane. In some cases all parts of the molecule have this same symmetry and the final structure is not disordered. In other examples the molecular symmetry is imperfect which results in a crystallographic disorder for those non-symmetric portions of the molecule. The effect of crystal packing and related structures are examined.