

For instance, treatment of indole with bromine gives exclusively 3-bromoindole. In the same vein, Michael addition with nitroethene, ethyl acrylate, and the Vilsmeier reagent all take place at C3. The adduct between indole and the Vilsmeier reagent can be hydrolyzed under basic conditions to give 1*H*-indole-3-carbaldehyde. Meanwhile, nitration and treatment with oxalyl chloride all give rise to the C3 electrophilic substitution products.

