

Chemical reaction scheme showing the nucleophilic aromatic substitution ( $S_NAr$ ) of 2-fluorobenzonitrile. A nucleophile ( $Nu^-$ ) attacks the carbon bearing the fluorine atom, displacing the fluoride ion. The product is a benzene ring with a cyano group ( $C\equiv N$ ) at position 1 and a nucleophile ( $Nu$ ) at position 2.

slowest                      medium                      fastest

**Answer**

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