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The Friedel–Crafts reactions are a set of reactions developed by Charles Friedel and James Crafts in 1877 to attach substituents to an aromatic ring. Friedel–Crafts reactions are of two main types: alkylation reactions and acylation reactions. Both proceed by electrophilic aromatic substitution. The diazo group is an organic moiety consisting of two linked nitrogen atoms at the terminal position. Overall charge neutral organic compounds containing the diazo group bound to a carbon atom are called diazo compounds or diazoalkanes and are described by the general structural formula is $R_2C=N=N$. The simplest example of a diazo compound is diazomethane. 4. Aldol Reaction (Condensation) R. Kane, *Ann. Phys. Chem., Ser. 2*, 44, 475 (1838); idem, *J. Prakt. Chem.* 15, 129 (1838). Traditionally, it is the acid- or base ... The Bend+Libration Combination Band Is an Intrinsic, Collective, and Strongly Solute-Dependent Reporter on the Hydrogen Bonding Network of Liquid Water