



## Ugi Reaction (Paperback)

By -

Part Press, United States, 2011. Paperback. Condition: New. Aufl.. Language: English . Brand New Book. Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. The Ugi reaction is a multi-component reaction in organic chemistry involving a ketone or aldehyde, an amine, an isocyanide and a carboxylic acid to form a bis-amide. The reaction is named after Ivar Karl Ugi, who first published this reaction in 1959. The Ugi reaction is exothermic and usually complete within minutes of adding the isocyanide. High concentration (0.5M - 2.0M) of reactants give the highest yields. Polar, aprotic solvents, like DMF, work well. However, methanol and ethanol have also been used successfully. This uncatalyzed reaction has an inherent high atom economy as only a molecule of water is lost and chemical yield in general are high. Recent research has shown that the Ugi reaction is accelerated in water. Several reviews have been published.



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