



A Publication
of Reliable Methods
for the Preparation
of Organic Compounds

Working with Hazardous Chemicals

The procedures in *Organic Syntheses* are intended for use only by persons with proper training in experimental organic chemistry. All hazardous materials should be handled using the standard procedures for work with chemicals described in references such as "Prudent Practices in the Laboratory" (The National Academies Press, Washington, D.C., 2011; the full text can be accessed free of charge at http://www.nap.edu/catalog.php?record_id=12654). All chemical waste should be disposed of in accordance with local regulations. For general guidelines for the management of chemical waste, see Chapter 8 of Prudent Practices.

In some articles in *Organic Syntheses*, chemical-specific hazards are highlighted in red "Caution Notes" within a procedure. It is important to recognize that the absence of a caution note does not imply that no significant hazards are associated with the chemicals involved in that procedure. Prior to performing a reaction, a thorough risk assessment should be carried out that includes a review of the potential hazards associated with each chemical and experimental operation on the scale that is planned for the procedure. Guidelines for carrying out a risk assessment and for analyzing the hazards associated with chemicals can be found in Chapter 4 of Prudent Practices.

The procedures described in *Organic Syntheses* are provided as published and are conducted at one's own risk. *Organic Syntheses, Inc.*, its Editors, and its Board of Directors do not warrant or guarantee the safety of individuals using these procedures and hereby disclaim any liability for any injuries or damages claimed to have resulted from or related in any way to the procedures herein.

These paragraphs were added in September 2014. The statements above do not supersede any specific hazard caution notes and safety instructions included in the procedure.

ETHYL AZODICARBOXYLATE

WARNING

A report has been received that a sample of ethyl azodicarboxylate [*Org. Syntheses*, 28, 59 (1948); Coll. Vol. **3**, 375 (1955)] decomposed upon attempted distillation with sufficient violence to shatter the distillation apparatus. It is possible that the explosion may have been due to overchlorination or to insufficient washing of the product with sodium bicarbonate solution. It is recommended that ethyl azodicarboxylate be distilled only behind a safety shield, and protected from direct sources of light.

Additional precautions on the handling of ethyl azodicarboxylate may be found in the most recent procedure published for its preparation in this series.¹

References and Notes

1. *Org. Syntheses*, Coll. Vol. **4**, 412 (1963).

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