



Showcasing research from Professor Jurriaan Huskens' laboratory, MESA+ Institute & Faculty of Science & Technology, University of Twente, Enschede, The Netherlands.

Polyurethane depolymerization by dialkyl carbonates: toward sustainable chemical recycling

A chemical route has been developed to depolymerize polyurethane foams into their monomeric units, providing high yields of both the aromatic and the polyol constituents. The use of diethyl carbonate provides these monomers as the carbamates and carbonates, respectively, and allows the implementation of the chemistry into a green recycling process that avoids the use of phosgene.

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See Jean-Paul Lange, Jurriaan Huskens *et al.*, *Green Chem.*, 2025, **27**, 11782.