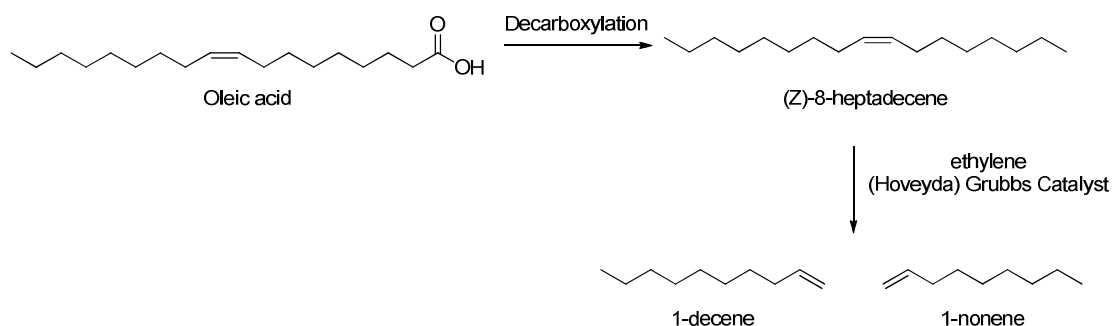


## Alpha Olefins from Fatty Acids

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Bio-Based internally unsaturated long chain hydrocarbons, obtained from unsaturated fatty acids, can serve as feedstock for the production of linear alpha olefins (LAO's) via ethenolysis. Currently, LAO's are produced petrochemically, and serve as starting materials for e.g. detergents and plastics (LLDPE).

Since the decarboxylation-products of unsaturated fatty acids are not commercially available, we have previously prepared these materials by means of stoichiometric oxidative decarboxylation [1]. Here we report our preliminary results on ethenolysis using a series of commercially available metathesis catalysts. Both high conversions and high selectivities towards the desired LAO's were obtained.



[1] F. van der Klis, M.H. van den Hoorn, R. Blaauw, J. van Haveren, D.S. van Es, *Eur J Lipid Sci Technol.*, (accepted for publication).

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