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## LEWIS ACID-INDUCED ENE CARBOCYCLIZATION TO BICYCLIC COMPOUNDS BEARING A CF<sub>3</sub> GROUP

## Ahmed Abouabdellah, Jean-Pierre Bégué, Danièle Bonnet-Delpon and Thierry Lequeux

CNRS-CERCOA, 2 rue Henry Dunant, 94320 Thais, France.

Lewis acid-ene cyclization of  $\omega$ -olefinic trifluoromethyl ketones provides trifluoromethyldecalins and trifluoromethylhydrindans in high yield s. Similar reactions were performed successfully with the corresponding  $\beta$ -keto esters.

The resulting tertiary alcohol-Lewis acid complexes are stable because the strong electronegativity of CF<sub>3</sub> group prevents any solvolysis or elimination. Indeed, unlike reactions with non-fluorinated parent compounds, a wide variety of Lewis acids can be used for the cyclization of unsaturated trifluoromethyl ketones.