

Experimental and theoretical studies on efficient regeneration of carbonyl compounds from oximes under green, mild and completely heterogeneous nanocatalysis

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Abstract

New type of heterogeneous nanocatalyst for deoximation based on Tungsten oxide supported on mesoporous molecular sieve MCM-41 was developed. This new system represents inexpensive and highly active heterogeneous nanocatalyst for deoximation under green and mild reaction conditions.

Keywords: Green deoximation, Hydrogen Peroxide, Nanocatalyst, ab initio, relative stability energies, thermodynamic computation.