Liquid-phase oxidation of hydrocarbons

Plenum Press - Oxidation of Hydrocarbons

Reviews

The specific features of the liquid-phase oxidation of saturated esters. Kinetics, reactivity and mechanisms of formation of destruction products*

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Oxidation of Hydrocarbons

The role of peroxides in the kinetics of liquid-phase oxidation processes is then considered, along with several elementary stages of the liquid-phase oxidation of hydrocarbons. The parameters of the diffusion-controlled nearsurface regime were determined. The high ketone selectivity was ascribed to the high catalytic activity of gold NPs for the cyclohexanol oxidation.

Liquid Phase Oxidation of Isobutane

In this context, computational chemistry is a powerful tool for the characterization of these catalytic systems at the molecular level. The Broken Symmetry DFT BS-DFT approach 159, 160 is often used in such cases.

Liquid Phase Oxidation of Isobutane

Gold catalysts have been reported to be active for the aerobic oxidation of cyclohexane without radical initiators Scheme 1. Kataliz v promyshlennosti 2019, 19 5 , 364-374.

Liquid Phase Oxidation of Isobutane

The Journal of Physical Chemistry A 2006, 110 10 , 3567-3577.

Liquid

AIChE Journal 2016, 62 12 , 4384-4402. The formation of unstable hydroperoxides, which can also be decomposed by heat, UV light, catalyst residues, or other metallic impurities, ultimately leads to the formation of alkoxy and hydroxyl radicals, as depicted in cycle II.

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