

Abstract

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The invention relates to processes for the preparation of alkylarylsulfonates by

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a) reaction of a C₄-olefin mixture over a metathesis catalyst to prepare an olefin mixture comprising 2-pentene and/or 3-hexene and optional removal of 2-pentene and/or 3-hexene,

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b) dimerization of the 2-pentene and/or 3-hexene obtained in stage a) in the presence of a dimerization catalyst to give a mixture comprising C₁₀₋₁₂-olefins and optional removal of the C₁₀₋₁₂-olefins,

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c) reaction of the C₁₀₋₁₂-olefin mixtures obtained in stage b) with an aromatic hydrocarbon in the presence of an alkylation catalyst to form alkyl aromatic compounds, where, prior to the reaction, additional linear olefins may be added,

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d) sulfonation of the alkyl aromatic compounds obtained in stage c) and neutralization to give alkylarylsulfonates, where, prior to the sulfonation, linear alkylbenzenes may additionally be added,

e) optional mixing of the alkylarylsulfonates obtained in stage d) with linear alkylarylsulfonates.