

ALKOXYLATED FATTY ESTERS AND DERIVATIVES FROM NATURAL OIL METATHESIS

Abstract

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Alkoxylated fatty ester compositions are disclosed. In one aspect, the compositions comprise a reaction product of a metathesis-derived C₁₀-C₁₇ monounsaturated acid, octadecene-1,18-dioic acid, or their ester derivatives with one or more alkylene oxides in the presence of an insertion catalyst to give an alkoxylated fatty ester. In another aspect, the metathesis-derived C₁₀-C₁₇ monounsaturated acid, octadecene-1,18-dioic acid, or its ester derivative is reacted with a glycol ether or a glycol ether alkoxylate, optionally in the presence of an esterification or transesterification catalyst, to give an alkoxylated fatty ester. In yet another aspect, the metathesis-derived C₁₀-C₁₇ monounsaturated acid or octadecene-1,18-dioic acid is reacted with one or more alkylene oxides to give a fatty acid alkoxylate, followed by etherification of the fatty acid alkoxylate.

(No Suitable Figure)