

Abstract**Process for oligomerization of butene with determination of the proportion of acidic catalysis**

The invention provides a process for oligomerization of n-butenes using a nickel-containing aluminosilicate catalyst to produce a product mixture whose ratio of 4,4-dimethylhexene to 3,4-dimethylhexene is determined and monitored. The invention further relates to a process for determining the ratio of the amount of the formed 4,4-dimethylhexene or of the formed 3-ethyl-2-methylpentene to the amount of the formed 3,4-dimethylhexene.

[No figure]