

Title (en)

METHOD FOR PRODUCING C1-C4- OXYGENATES BY MEANS OF PARTIAL OXIDATION OF HYDROCARBONS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON C1-C4- OXYGENATEN DURCH PARTIELLE OXIDATION VON KOHLENWASSERSTOFFEN

Title (fr)

PROCÉDÉ DE PRODUCTION D'OXYGÉNATS EN C1 À C4 PAR OXYDATION PARTIELLE D'HYDROCARBURES

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Application

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Abstract (en)

[origin: WO2011082982A1] The invention relates to a method for producing C1-C4-oxygenates from a reactant stream (A), which essentially comprises a C1-C4-alkane or a mixture of C1-C4-alkanes, wherein a) a partial stream (B) of the reactant stream (A) is branched and is allowed to react in a reactor with oxygen or a gas stream (C) containing oxygen, wherein a part of the C1-C4-alkane or a part of the mixture comprising C1-C4-alkane is converted to C1-C4-oxygenates, b) at least 90 mol-% of the formed C1-C4-oxygenate is separated from the product stream (D) resulting from step a), forming a remaining low boiler stream (E), characterized in that the low boiler stream (E) is combined with the reactant stream (A), without further treatment and without combining with the partial stream (B), downstream of the branching point of the partial stream (B).

IPC 8 full level

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