

Title (en)
METHOD FOR OXIDIZING METHANE

Title (de)
VERFAHREN ZUR OXIDATION VON METHAN

Title (fr)
PROCÉDÉ D'OXYDATION DU MÉTHANE

Publication
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Application
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Abstract (en)
[origin: WO2011009429A1] The invention relates to platinum(II) complexes and the use of said complexes to oxidize methane to form methyl sulfate, wherein the catalyst as a ligand is a network based on aromatic N heterocycles, which network has at least 2 coordinate N atoms per platinum atom, and the complex anion is selected from a halide. The catalyst enables a selective low-temperature oxidation of methane to form methyl sulfate or methanol. The catalysts not only exhibit high activity but also can be easily separated from the reaction mixture and reused over several runs without a significant loss of activity.

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