

Abstract**Catalyst and process for removing mercaptans from hydrocarbon streams**

- 5 The invention relates to a catalyst for a process for removing mercaptans and optionally disulfides (if present) from hydrocarbon streams, in particular C4 streams, in the presence of higher dienes, in particular C5 dienes. At the same time, the invention also relates to a process for removing mercaptans and disulfides (if present) from hydrocarbon streams, in particular C4 streams, in one embodiment in the presence of 1-butene, by thioetherification of the mercaptans with
- 10 polyunsaturated hydrocarbons, wherein the process is carried out in a reactor with addition of hydrogen in the presence of higher dienes, in particular C₅ dienes.

[No figure]