

Abstract

Process for the selective preparation of acetic acid

- 5 A process for the selective preparation of acetic acid from a gaseous feed comprising ethane, ethylene or mixtures thereof plus oxygen at elevated temperature, which comprises bringing the gaseous feed into contact with a catalyst comprising the elements Mo, Pd, Re, X and Y in gram atom ratios a:b:c:d:e in combination with oxygen

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where the symbols X, Y have the following meanings:

X = Cr, Mn, Nb, B, Ta, Ti, V and/or W

- 15 Y = Bi, Ce, Co, Cu, Te, Fe, Li, K, Na, Rb, Be, Mg, Ca, Sr, Ba, Ni, P, Pb, Sb, Si, Sn, Tl and/or U;

the indices a, b, c, d and e are the gram atom ratios of the corresponding elements, where

a=1, b>0, c>0, d = 0.05-2, e = 0-3.

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ENCLOSURE