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## **Propylene Production Via Propane Dehydrogenation**

In this scenario, routes to obtain propylene from lighter feedstock, instead of from crude oil, are becoming more and more interesting. Thus the propane dehydrogenation (PDH) reaction

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is a promising alternative to meet the rising global propylene demand (see Making Propylene On-Purpose; this issue).

## **Propylene Production via Propane Dehydrogenation ...**

The tight propylene market contributed to the rising of new and novel lower-cost

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chemical processes for on-purpose propylene production technologies. Propane Dehydrogenation (PDH) technology is one of the promising processes that arises to fulfill this need.

## **Propylene Production via Propane Dehydrogenation: Intratec ...**

The construction of a propane

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dehydrogenation (PDH) plant will enable Grupa Azoty to fully cover its current propylene deficit and provide a basis for the development of next investment projects CAPEX 1,7 mld PLN Propane Propylene Hydrogen C4's Simplified diagram of PDH plant (400 kt) PDH feedstock widely available on the market main product

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## **Propylene production via propane dehydrogenation (PDH)**

The increasing demand for propylene and the availability of low-cost feedstock make propane dehydrogenation an economically attractive chemical route. Propane, the main feedstock for propane dehydrogenation (PDH) processes, can



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be obtained as a byproduct of petroleum refinery operations and can be recovered from propane-rich liquefied petroleum gas (LPG) streams from natural-gas processing plants.

## **Technology Profile: Propylene Production via Propane ...**

Over the last decade, much effort has

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been dedicated to obtaining efficient catalysts for propylene production via catalytic dehydrogenation of propane. But little attention has been paid to Nb-containing multicomponent mixed oxides, which showed excellent performance in oxidative dehydrogenation (ODH) of alkanes , , , .

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## **ZnNbO catalysts for propylene production via catalytic ...**

PropyleneProductionbyPropaneDehydrogenation (PDH) 8 Propane Dehydrogenation (PDH) Propane dehydrogenation (PDH) converts propane into propylene and by-product hydrogen. The propylene from propane yield is about 85 m%. Reaction by-

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products (mainly hydrogen) are usually used as fuel for the propane dehydrogenation reaction.

## **Propylene Production by Propane Dehydrogenation (PDH)**

The CATOFIN propane dehydrogenation process is a commercially proven, fixed-bed process for the production of

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propylene from propane. Utilizing recently enhanced catalyst technology, the CATOFIN process achieves the highest selectivity (>92 mol%) and conversion available for propane dehydrogenation.

## **Propylene Production | Lummus Technology**

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A novel process scheme for propylene production via propane dehydrogenation has been investigated. The solution foresees the integration of the reaction unit with a Pd based membrane for the recovery of hydrogen, enabling accordingly the shift of chemical equilibrium and the attainment of a sustainable propane conversion even at

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lower temperature than conventional one.

## **Highly selective propylene production in a membrane ...**

Propane dehydrogenation is a simple process with one feed (propane) that is converted to one primary product (propylene) with the option to use the by-

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product (hydrogen) for fuel or export for other uses (see Figure 2). A PDH unit is easily integrated at a propane source or at a downstream polypropylene production plant.

## **On-purpose propylene production - DigitalRefining**

Direct propane dehydrogenation (PDH)



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is an attractive technology for propylene production. We show here that propane conversion is significantly enhanced by the addition of ZnO to Cr<sub>2</sub>O<sub>3</sub>.

## **Enhanced propane dehydrogenation to propylene over zinc ...**

On-Purpose Propylene via Propane Dehydrogenation (PDH) Up until a few

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years ago, propylene production was mostly a derivative of the petroleum refining and olefin cracking industries. But that is changing big time.

## **Oh Propylene - Why Can't You be True? On-Purpose Propylene ...**

The two main sources of propylene are as a byproduct from the steam cracking

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of liquid feedstocks such as naphtha as well as LPGs, and from off-gases produced in fluid catalytic cracking (FCC) units in refineries. The remainder of propylene is produced using on-purpose technologies such as propane dehydrogenation (PDH) and metathesis.

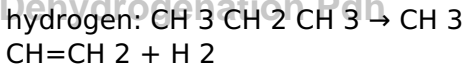
## **Propylene Production and**

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The dominant technology for producing propylene is steam cracking. The same technology is applied to ethane to ethylene. These two conversions are the #2 and #1 processes in the chemical industry, as judged by their scale. In this process, propane undergoes dehydrogenation. The by-product is

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### **Propene - Wikipedia**

In a propane dehydrogenation (PDH) process, propane is selectively dehydrogenated to propylene. As one of the “on-purpose” propylene production routes, PDH has recently received much

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attention, and propylene production capacity via PDH is slated to grow rapidly over the next several years.

## **Propane Dehydrogenation Process Technologies | IHS Markit**

covers two on-purpose propylene production technologies and economics - UOP licensed Oleflex propane

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dehydrogenation process and KBR licensed Superflex process - and examines the driving forces behind these on-purpose technologies. For propylene production from propane, the primary economic incentive increases with

## **Abstract Process Economics**

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That has led to the development of more “on-purpose” propylene production facilities — especially propane dehydrogenation (PDH) plants — in both the U.S. and Canada.

## **On Purpose - What's Driving New Propane Dehydrogenation ...**



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This book discusses the surroundings of the propylene production via propane dehydrogenation, in a technical process and economical point of view. They use a clear helpful language, give complete informations from process technology overview and description to cost estimates and comparing scenarios.

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## **Amazon.com: Customer reviews: Propylene Production via ...**

Highly selective catalyst for on-purpose propylene production via KBR's propane dehydrogenation technology, K-PRO™ K-100. Highly selective propylene recovery catalyst used in KBR's catalytic olefins technology, K-COT™ MAXOFIN™ Additive. Proprietary additive to enhance

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flexibility of product yields from  
MAXOFIN™ technology. VCC™ Additive

### **Catalysts & Additives | KBR**

Dehydrogenation is the a chemical reaction that involves the removal of hydrogen, usually from an organic molecule.It is the reverse of hydrogenation.Dehydrogenation is

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important, both as a useful reaction and a serious problem. At its simplest, it is useful way of converting alkanes, which are relatively inert and thus low-valued, to olefins, which are reactive and thus more valuable.

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