

## Ethylene Glycol Production From Syngas A New Route

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### Ethylene Glycol Production From Syngas

Brine extraction Brine purification Brine electrolysis HCl production Crude oil extraction Oil refining Cracking Natural gas extraction Natural gas processing Catalytic reforming p-xylene separation Dehydrogenation Hydrogenation Steam reforming Ammonia production Methanol production Acetic acid production Oxidation Nitrobenzene production ...

### Eco-profiles - PlasticsEurope

Propene production has remained static at around 35 million tonnes (Europe and North America only) from 2000 to 2008, but it has been increasing in East Asia, most notably Singapore and China. Total world production of propene is currently about half that of ethylene. The use of engineered enzymes has been explored but is of no commercial value.

### Propene - Wikipedia

For the preparation of the Pt-Sn/SiC catalyst, SiC (1.0 g) was first dispersed in ethylene glycol (20 mL) and sonicated for 0.5 h.

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Aqueous solutions of  $\text{H}_2\text{PtCl}_6$  (3.7 mg mL<sup>-1</sup>) and  $\text{SnCl}_2$  (4 ...

## Single-pass transformation of syngas into ethanol with ...

Ethylene, one of the main products, is used to make polyethylene, the most common type of polymer produced. Propylene is used to produce polypropylene, a major polymer type. Some polybutylene is made from butylene, but much of the butylene is used to produce isooctane via the alkylation process for gasoline.

## Methanol-to-Gasoline Process - an overview | ScienceDirect ...

Acetic acid / ə ' s i : t ɪ k /, systematically named ethanoic acid / , ε θ ə ' n ə s ɪ k /, is an acidic, colourless liquid and organic compound with the chemical formula  $\text{CH}_3\text{COOH}$  (also written as  $\text{CH}_3\text{CO}_2\text{H}$ ,  $\text{C}_2\text{H}_4\text{O}_2$ , or  $\text{HC}_2\text{H}_3\text{O}_2$ ). Vinegar is no less than 4% acetic acid by volume, making acetic acid the main component of vinegar apart from water.. Acetic acid is the second ...

## Acetic acid - Wikipedia

Syngas can be produced from any organic source and it has profiled itself as important intermediate to the production of petroleum like products through FTS or via methanol and DME synthesis followed by MTG/MTO (Wender, 1996). Syngas is a mixture of carbon monoxide and hydrogen. The quality of syngas is measured via the  $\text{H}_2/\text{CO}$  ratio. This is ...

## Mechanical and chemical recycling of solid plastic waste

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Evaluation. The Techno-Economic Assessment & Life Cycle Assessment Guidelines for  $\text{CO}_2$  Utilization address the need for harmonized procedures that ensure rigorous, transparent, and uniform analysis of environmental and economic impacts..

AssessCCUS is the leading repository of resources for life cycle and techno-economic assessment of carbon capture, utilization, and storage (CCUS) technologies.

## Global CO2 Initiative

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## **Cookie Absent | ACS Action**

Ethylene glycol. Mono ethylene glycol (MEG), ethane-1,2-diol.

EU. European Union EoL. End of life HBCD.

Hexabromocyclododecane.

1,2,5,6,9,10-Hexabromocyclododecane. HDPE. High density polyethylene HIPS. High Impact Polystyrene IL. Ionic liquid LCA.

Life cycle analysis LDPE. Low density polyethylene M w.

Molecular weight MHET. Mono-(2 ...

## **Beyond Mechanical Recycling: Giving New Life to Plastic**

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A simple syngas reaction on Rh(111) exhibits more than 2000 potential pathways 144, in comparison with the more complicated CO<sub>2</sub> hydrogenation reaction routes that are strongly influenced by the ...

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