



propylene glycol

# Glycerol To Propylene Glycol

**Joint FAO/WHO Expert Committee on  
Food Additives. Meeting**

## **Glycerol To Propylene Glycol:**

### **Equilibrium Limitations and Selectivity on Conversion of Glycerol to Propylene Glycol** Lizanette

Rivera-Ramos,2006 Hydrogenolysis of glycerol to propylene glycol was performed at lower temperatures and pressures using concentrated glycerol Reactions were carried out at 180 200 220 and 240 C and at a system pressure of 1 2 and 4 bars in the presence of a copper chromite catalyst The effect of temperature pressure residence time water content and H<sub>2</sub> Glycerol mole ratios were evaluated All results indicate that lower temperatures and higher pressures promote the selectivity on conversion of glycerol to propylene glycol The amount of byproducts decreased with decreasing the residence time Product quality correlates with lower water content Catalyst productivity increased with decreasing H<sub>2</sub> Glycerol mole ratio An optimal H<sub>2</sub> Glycerol mole ratio is near 15 1 Lower temperatures 220 C are the preferred operated conditions to increase the catalyst productivity The results are also fully consistent with a two step reaction in which the second step of conversion of acetol to propylene glycol is equilibrium limited

*Glycerol to Propylene Glycol* Dan Gallagher,Janelle Johnson,Andrea Loayza,Martin Rogers,University of Pennsylvania. Department of Chemical Engineering,2008

**Catalytic Conversion of Glycerol to Propylene Glycol** Chuang-Wei Chiu,2006 This research is focused on developing a method that is applicable to the industrial scale production of propylene glycol from glycerol with considerably high conversions and yields The fundamental understanding behind this glycerol technology paves the way for future work on exploring some more commodity chemicals that will be derived from natural resources Acetol was successfully isolated from dehydration of glycerol as the transient intermediate indicates that the reaction process for producing propylene glycol with high selectivity can be done in two steps Reactive distillation technology was employed to shift the equilibrium towards the right and achieve high yields This catalytic process provides an alternative route for the production of propylene glycol from renewable resources The low pressure vapor phase catalytic processing using copper chromite catalyst has been proven as feasible for producing propylene glycol from glycerol This approach was demonstrated in a continuous process to address the concerns of scalability and suitability for large scale production The vapor phase reaction approach allows glycerol to be converted to propylene glycol in a single reactor A two step reaction process to produce propylene glycol from glycerol via an acetol intermediate was proposed and validated A large scale process is thereby potentially viable

**Dehydroxylation of Glycerol to Propylene Glycol Over Copper-zinc Oxide Catalysts** Suchart Panyad,2010

**Processes and Systems for the Production of Propylene Glycol from Glycerol** ,2015 Processes and systems for converting glycerol to propylene glycol are disclosed The glycerol feed is diluted with propylene glycol as the primary solvent rather than water which is typically used The diluted glycerol feed is sent to a reactor where the glycerol is converted to propylene glycol as well as other byproducts in the presence of a catalyst The propylene glycol containing product from the reactor is recycled as a solvent for the glycerol feed

**Dehydroxylation of Glycerol to Propylene Glycol Over Copper/zinc Oxide-based**

**Catalyst** Issariya Chirddilok,2009      **Heterogeneous Catalysis of Glycerol to Propylene Glycol Over Copper Chromite** Sydney D. Sovine,2012      *Propylene Glycol Production from Glycerol - Cost Analysis - Propylene Glycol E12A* Intratec,2016-05-01 This report presents a cost analysis of Propylene Glycol production from glycerol using a vapor phase process The process examined is similar to Davy Technologies process In this process technical grade glycerol 99.5 wt% glycerol content is used as feedstock and ethylene glycol is generated as by product This report examines one time costs associated with the construction of a United States based plant and the continuing costs associated with the daily operation of such a plant More specifically it discusses Capital Investment broken down by Total fixed capital required divided in production unit ISBL infrastructure OSBL and contingency Alternative perspective on the total fixed capital divided in direct costs indirect costs and contingency Working capital and costs incurred during industrial plant commissioning and start up Production cost broken down by Manufacturing variable costs raw materials utilities Manufacturing fixed costs maintenance costs operating charges plant overhead local taxes and insurance Depreciation and corporate overhead costs Raw materials consumption products generation and labor requirements Process block flow diagram and description of industrial site installations production unit and infrastructure Keywords Glycerin Davy Process Technology DPT Propane 1,2 diol Hydrogenolysis Cargill Ashland      *Specific-heat Spectroscopy of Glycerol and Propylene Glycol Near the Glass Transition* Norman Owen Birge,1986      **Glycerol and the Glycols** James Wright Lawrie,1928      **Glycerine** Eric Jungermann,Norman O.V. Sonntag,2018-05-02 This book comprehensively covers the chemical and physical properties and manufacturing and handling procedures of glycerine and the use of this material in cosmetic and personal care products and in other industrial areas such as testing laboratories and manufacturing and marketing sectors      **Catalytic Conversion of Glycerol and Sugar Alcohols to Value-added Products** Mohanprasad A. Dasari,2006 The current research is based on developing an improved and fundamental understanding of technology that will allow the conversion of this crude glycerin to a propylene glycol based antifreeze product Hydrogenolysis of glycerol to propylene glycol was performed using copper chromite catalyst At temperatures above 200 C and hydrogen pressure of 200 psi the selectivity to propylene glycol decreased due to excessive hydrogenolysis of the propylene glycol The yield of propylene glycol increased with decreasing water content The main causes for the deactivation were reduction of the cuprous chromium active species into metallic copper species metal leaching and blocking of sites by strongly adsorbed inorganic and organic species present in the feed or generated during the reaction A new reaction pathway for converting glycerol to propylene glycol via an intermediate was validated by isolating the acetol intermediate In the first step involves dehydration of glycerol to acetol with subsequent hydrogenation of acetol to propylene glycol High acetol selectivities greater than 90% were achieved using copper chromite catalyst and operating in semi batch reactive distillation mode The acetol from this reaction readily hydrogenates to form propylene glycol with selectivities exceeding 95%      **Compendium of Food Additive Specifications** Joint FAO/WHO

Expert Committee on Food Additives. Meeting,1997-01-01      **Gums and Stabilisers for the Food Industry 12** Glyn O Phillips,Peter A Williams,2009-10-21 The latest volume in the successful Special Publication Series captures the most recent research findings in the field of food hydrocolloids The impressive list of contributions from international experts includes topics such as Hydrocolloids as dietary fibre The role of hydrocolloids in controlling the microstructure of foods The characterisation of hydrocolloids Rheological properties The influence of hydrocolloids on emulsion stability Low moisture systems Applications of hydrocolloids in food products Gums and Stabilisers for the Food Industry 12 with its wide breadth of coverage will be of great value to all who research produce process or use hydrocolloids both in industry and academia

**Ruminant physiology** Y. Chilliard,F. Glasser,Y. Faulconnier,F. Bocquier,I. Veissier,M. Doreau,2023-09-04 This book contains the proceedings of the XIth International Symposium on Ruminant Physiology The papers address ruminant comparative physiology the rumen ecosystem and metagenomics nutrient digestion and absorption methanogenesis tissue metabolism and gene expression pregnancy lactation and growth adaptation to heat stress nitrogen use nutrition and reproduction nutrition and welfare and nutrition for sustainable ruminant production These topics are in line with the current challenges for animal breeding production efficiency meat and milk quality environment greenhouse gases nitrogen use animal welfare and health The contributions come from research teams in 49 countries of all continents showing a world wide interest in ruminant nutrition and physiology They show the latest techniques and results on ruminant nutrition physiology including fundamental and integrative approaches presented in the book on the following sections 1 Digestion and absorption 2 Metabolism and hormonal regulations 3 Nutrition and reproduction 4 Nutrition and welfare Proceedings from past ISRP symposia have had a major influence on research and teaching in animal science over the years Without a doubt this book which is of interest to all professionals and researchers who are concerned with ruminant nutrition and physiology will contribute to this fine tradition      **Veterinary Treatment of Sheep and Goats, 2nd Edition** Graham R.

Duncanson,2025-06-17 Sheep and goats are farmed worldwide for meat milk skins and wool This diverse range of uses means that many people rely on these animals as a source of income food and warm clothing though they can also be kept as pets With an accessible structure designed for use in the field this book provides a general veterinary guide to treating common conditions in these animals Fully updated in this new edition it addresses veterinary medicines and their uses on site surgery equipment normal values and vital signs vaccination nutrition dental treatment poisoning and dermatology Worldwide disease conditions are also covered in detail with a particular focus on the welfare of the animal and economic reality      [Propylene Glycol Production from Glycerol - Cost Analysis - Propylene Glycol E11A](#) Intratec,2016-05-01 This report presents a cost analysis of Propylene Glycol production from glycerol using a liquid phase process The process examined is similar to Suppes process In this process technical grade glycerol 99.5 wt% glycerol content is used as feedstock and ethylene glycol is generated as by product This report examines one time costs associated with the construction of a United

States based plant and the continuing costs associated with the daily operation of such a plant More specifically it discusses Capital Investment broken down by Total fixed capital required divided in production unit ISBL infrastructure OSBL and contingency Alternative perspective on the total fixed capital divided in direct costs indirect costs and contingency Working capital and costs incurred during industrial plant commissioning and start up Production cost broken down by Manufacturing variable costs raw materials utilities Manufacturing fixed costs maintenance costs operating charges plant overhead local taxes and insurance Depreciation and corporate overhead costs Raw materials consumption products generation and labor requirements Process block flow diagram and description of industrial site installations production unit and infrastructure

Keywords Glycerin Senergy Chemical Propane 1 2 diol Hydrogenolysis      **The Oxidation of Propylene Glycol ...** Edgar John Witzemann,1912      **Propylene Glycol Production from Glycerol** Boon Seong An,2009      *Review of American Chemical Research* ,1904

## **Glycerol To Propylene Glycol** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Glycerol To Propylene Glycol**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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