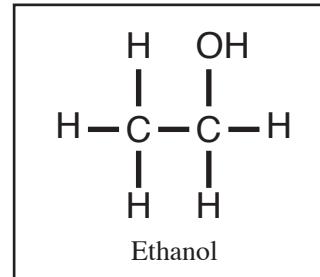


## Nutrition - Alcohol Outline

### Alcohol



#### 1. Ethanol (Pages 184 - 191)

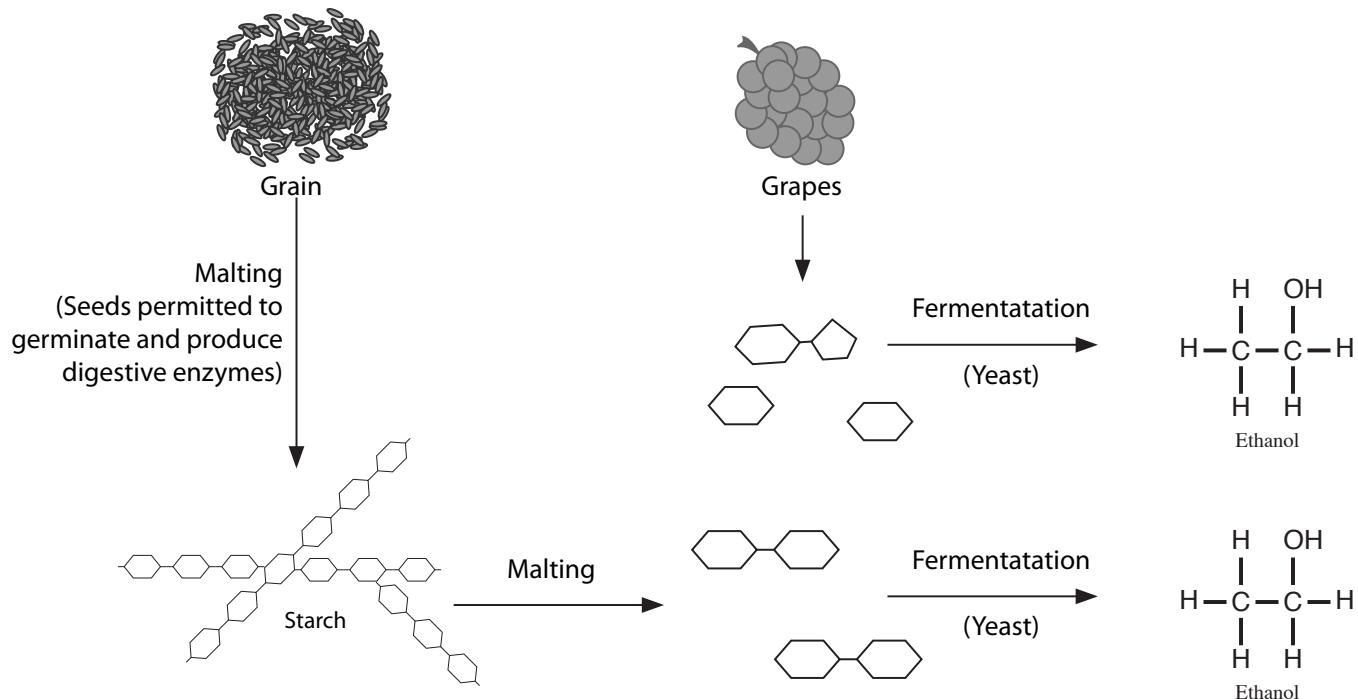
##### A. What is it?

###### i. Yeast

###### a. Fermentation

- Simple Sugars → Ethanol

###### b. Malting



###### ii. Process

## Nutrition - Alcohol Outline

### iii. Distillation Process

a. Proof - 80 proof is 40% alcohol.

iv. Energy - 7 kcal / gm

## B. Beverage Comparison

i. The “Standard Drink” Serving Size: 15 gm alcohol

a. General Equivalents (may vary)

- 12 oz beer
- 5 oz wine
- 1.5 oz hard liquor

ii. Chart

Beverage	Amount (Fl oz)	Alcohol (gm)	Energy (kcal)
Beer, Reg	12	12	150
Beer, Lite	12	10	75-100
Wine, Red	5	14	100
Wine, White	5	14	100
Wine, Dessert Sweet	5	23	225
Gin, rum, Vadka, whiskey (80 proof)	1.5	14	95
Martini	3.5	32	220
Margarita (frozen)	8	20	175

*From Wardlaw's Perspectives in Nutrition, 9th edition, copyright 2013*

ii. General Guidelines

## Nutrition - Alcohol Outline

### B. Metabolic Processing of Ethanol

#### i. Detoxification

##### a. Digestive Lining

##### b. Liver

Ethanol → → → CO<sub>2</sub> and Water  
*Enzyme Systems of*  
• *Digestive System*  
• *Liver*

### 2. Blood Alcohol Concentration (BAC)

### 3. Toxicity Issues (Pages 187 - 191)

#### A. Depressant of Central Nervous System (Pages 187 - 189)

- Relaxant
- Depressed Motor Function
- Diminished Reasoning
- Nervous Tissue Damage

#### B. Digestive Tract (Page - 188)

#### C. Liver (Pages 189 - 190)

##### a. Cirrhosis of Liver

## Nutrition - Alcohol Outline

D. Nutritional Issues (Page 190)

E. Diuretic Effect (Page 190)

F. Fetal Alcohol Spectrum Disorder (Page 190 - 191)

a. Fetal Alcohol Syndrome

4. Male / Female Differences

5. Alcohol Abuse (Page 186 - 187)

A. Binge Drinking

B. Alcohol Dependence

## Nutrition - Alcohol Outline

### 6. Benefits of Ethanol (Page 191)

- A. Raises HDL
- B. Antioxidant Properties
- C. Endorsements
  - US Surgeon General's Office
  - National Academy of Science
  - US Department of Agriculture
  - US Department of Health and Human Services

***DO NOT*** recommend nondrinkers start because the risks often outweigh possible benefits. But they do not discourage moderate use.