

## #36 Kölsch

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- Gravity **11.7 BLG**
- ABV **4.7 %**
- IBU **26**
- SRM **3.7**
- Style **Kölsch**

### Batch size

- Expected quantity of finished beer **11 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **14 liter(s)**

### Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **9.6 liter(s)**
- Total mash volume **12.4 liter(s)**

### Steps

- Temp **65 C**, Time **60 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **9.6 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **5 min** at **78C**
- Sparge using **7.2 liter(s)** of **76C** water or to achieve **14 liter(s)** of wort

### Fermentables

| Type  | Name                | Amount         | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Strzegom Pilzneński | 2.5 kg (90.9%) | 80 %  | 4   |
| Grain | Pszeniczny          | 0.25 kg (9.1%) | 85 %  | 4   |

### Hops

| Use for | Name            | Amount | Time   | Alpha acid |
|---------|-----------------|--------|--------|------------|
| Boil    | Hallertau Blanc | 5 g    | 60 min | 8.9 %      |
| Boil    | Hallertau Blanc | 5 g    | 40 min | 8.9 %      |
| Boil    | Hallertau Blanc | 5 g    | 20 min | 8.9 %      |
| Boil    | Hallertau Blanc | 15 g   | 3 min  | 8.9 %      |

### Yeasts

| Name         | Type | Form  | Amount   | Laboratory |
|--------------|------|-------|----------|------------|
| Safbrew S-33 | Ale  | Slant | 137.5 ml | Safbrew    |