

Kölsch #36 v.2

- Gravity **11.4 BLG**
- ABV ---
- IBU **30**
- SRM **5.5**
- Style **Kölsch**

Batch size

- Expected quantity of finished beer **35 liter(s)**
- Trub loss **5 %**
- Size with trub loss **36.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **44.3 liter(s)**

Mash information

- Mash efficiency **90 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **23.5 liter(s)**
- Total mash volume **30.2 liter(s)**

Steps

- Temp **45 C**, Time **10 min**
- Temp **52 C**, Time **10 min**
- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up **23.5 liter(s)** of strike water to **48.6C**
- Add grains
- Keep mash **10 min** at **45C**
- Keep mash **10 min** at **52C**
- Keep mash **45 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **27.5 liter(s)** of **76C** water or to achieve **44.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------------------------|-----------------|-------|-----|
| Grain | Orkiszowy | 0.5 kg (7.5%) | 82 % | 4 |
| Grain | Viking Przeniczny | 0.5 kg (7.5%) | 80 % | 5 |
| Grain | Pilzneński klepiskowy Bruntal | 1 kg (14.9%) | 80 % | 4 |
| Grain | Pale Ale Malt | 0.88 kg (13.1%) | 75 % | 5 |
| Grain | Pilzneński Premium Wyermann | 3.5 kg (52.2%) | 81 % | 4 |
| Grain | Strzegom Karmel 150 | 0.33 kg (4.9%) | 75 % | 150 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-------------------|--------|--------|------------|
| Boil | Northern Brewer U | 40 g | 60 min | 7.6 % |
| Aroma (end of boil) | Perle U | 30 g | 20 min | 7 % |
| Boil | Saaz A | 23 g | 10 min | 4 % |

Yeasts

Recipe has been printed via **BREWNESS.com** - a complex online solution for homebrewers to track brewing process easily.

| Name | Type | Form | Amount | Laboratory |
|-------------|-------------|-------------|---------------|-------------------|
| B44 Bulldog | Ale | Dry | 20 g | Bulldog |