

Kölsch 12

- Gravity **11.9 BLG**
- ABV ---
- IBU **28**
- SRM **4.4**
- Style **Kölsch**

Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **22.8 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **11.4 liter(s)**
- Total mash volume **15.2 liter(s)**

Steps

- Temp **62 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **11.4 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **40 min** at **62C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **15.2 liter(s)** of **76C** water or to achieve **22.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------------|-----------------|-------|-----|
| Grain | Strzegom Pilzneński | 2.8 kg (73.7%) | 85 % | 4 |
| Grain | Pszeniczny | 0.75 kg (19.7%) | 85 % | 4 |
| Grain | Briess - Carapils Malt | 0.15 kg (3.9%) | 74 % | 3 |
| Grain | Słód Caramunich Typ II Weyermann | 0.1 kg (2.6%) | 73 % | 120 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------|--------|--------|------------|
| Boil | Lunga | 5 g | 60 min | 12.5 % |
| Boil | Lunga | 5 g | 40 min | 12.5 % |
| Boil | Tradition | 15 g | 30 min | 5.6 % |
| Boil | Tradition | 15 g | 15 min | 5.6 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------------------|------|------|--------|------------|
| WLP029 - German Ale/Kölsch Yeast | Ale | Dry | 150 g | Gazdawa |