

# 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