## **Cool Coolsh**

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **22**
- SRM 3.8
- Style Kölsch

## **Batch size**

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.8 liter(s)

## **Mash information**

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 13.5 liter(s)
- Total mash volume 18 liter(s)

## **Steps**

- Temp **52** C, Time **20 min** Temp **63** C, Time **60 min** Temp **72** C, Time **20 min**
- Temp **76 C**, Time **5 min**

# Mash step by step

- Heat up 13.5 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 20 min at 52C
- Keep mash 60 min at 63C
- Keep mash 20 min at 72C
- Keep mash 5 min at 76C
- Sparge using 18.8 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Bohemian Pilsner Malt	3 kg <i>(66.7%)</i>	81 %	4
Grain	Weyermann - Pale Wheat Malt	1 kg <i>(22.2%)</i>	85 %	3.9
Grain	Weyermann - Light Munich Malt	0.5 kg <i>(11.1%)</i>	82 %	17.7

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Northern Brewer	15 g	60 min	8.8 %
Boil	Northern Brewer	10 g	30 min	8.8 %
Boil	Huell Melon	10 g	10 min	5.5 %

## **Yeasts**

Name	Туре	Form	Amount	Laboratory
Wyeast - Kolsch	Ale	Liquid	1000 ml	Wyeast Labs