## **APA**

- Gravity 11 BLG
- ABV 4.4 %
- IBU **34**
- SRM 3.8
- Style American Pale Ale

## **Batch size**

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

# **Mash information**

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

# **Steps**

- Temp 64 C, Time 40 min
  Temp 72 C, Time 10 min

# Mash step by step

- Heat up 16.5 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 40 min at 64C
- Keep mash 10 min at 72C
- Sparge using 20.7 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5.5 kg <i>(100%)</i>	80 %	5

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	30 g	60 min	11 %
Boil	Cascade	30 g	5 min	6 %
Boil	Marynka	30 g	0 min	10 %

### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Fermentis