# 1. apa

- Gravity 14 BLG
- ABV 5.8 %
- IBU **31**
- SRM **4.5**
- Style American Pale Ale

### **Batch size**

- Expected quantity of finished beer 10 liter(s)
- Trub loss 5 %
- Size with trub loss 10.5 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 12.7 liter(s)

### **Mash information**

- Mash efficiency **75** %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 9.8 liter(s)
- Total mash volume 12.6 liter(s)

#### **Steps**

• Temp 68 C, Time 60 min

# Mash step by step

- Heat up 9.8 liter(s) of strike water to 74.9C
- Add grains
- Keep mash 60 min at 68C
- Sparge using **5.7 liter(s)** of **76C** water or to achieve **12.7 liter(s)** of wort

#### **Fermentables**

Туре	Name	Amount	Yield	ЕВС
Grain	Viking Pale Ale malt	2.8 kg (100%)	80 %	5

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	7 g	60 min	12 %
Aroma (end of boil)	Citra	28 g	5 min	12 %