

## Pale Ale #9

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- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **22**
- SRM **4.6**
- Style **Blonde Ale**

### Batch size

- Expected quantity of finished beer **22.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **29.8 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**

### Mash step by step

- Heat up **15 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **19.8 liter(s)** of **76C** water or to achieve **29.8 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	5 kg (100%)	85 %	7

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	30 g	60 min	7.5 %
Aroma (end of boil)	Citra	100 g	0 min	12 %

### Yeasts

Name	Type	Form	Amount	Laboratory
lallemand - american west coast	Ale	Dry	11 g	lallemand