

## WARKA #9

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- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **13**
- SRM **3.7**
- Style **Weizen/Weissbier**

### 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 **9.1 liter(s)**
- Total mash volume **11.7 liter(s)**

### Steps

- Temp **44 C**, Time **15 min**
- Temp **63 C**, Time **20 min**
- Temp **72 C**, Time **45 min**
- Temp **78 C**, Time **0 min**

### Mash step by step

- Heat up **9.1 liter(s)** of strike water to **47.4C**
- Add grains
- Keep mash **15 min** at **44C**
- Keep mash **20 min** at **63C**
- Keep mash **45 min** at **72C**
- Keep mash **0 min** at **78C**
- Sparge using **6.2 liter(s)** of **76C** water or to achieve **12.7 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	1 kg (38.5%)	85 %	4
Grain	Pilzneński	1 kg (38.5%)	81 %	4
Grain	Grodziski pszeniczny wędzony dębem	0.4 kg (15.4%)	80 %	3
Grain	Płatki pszeniczne	0.2 kg (7.7%)	85 %	3

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	15 g	60 min	4 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Safbrew WB-06	Wheat	Dry	11.5 g	Safbrew