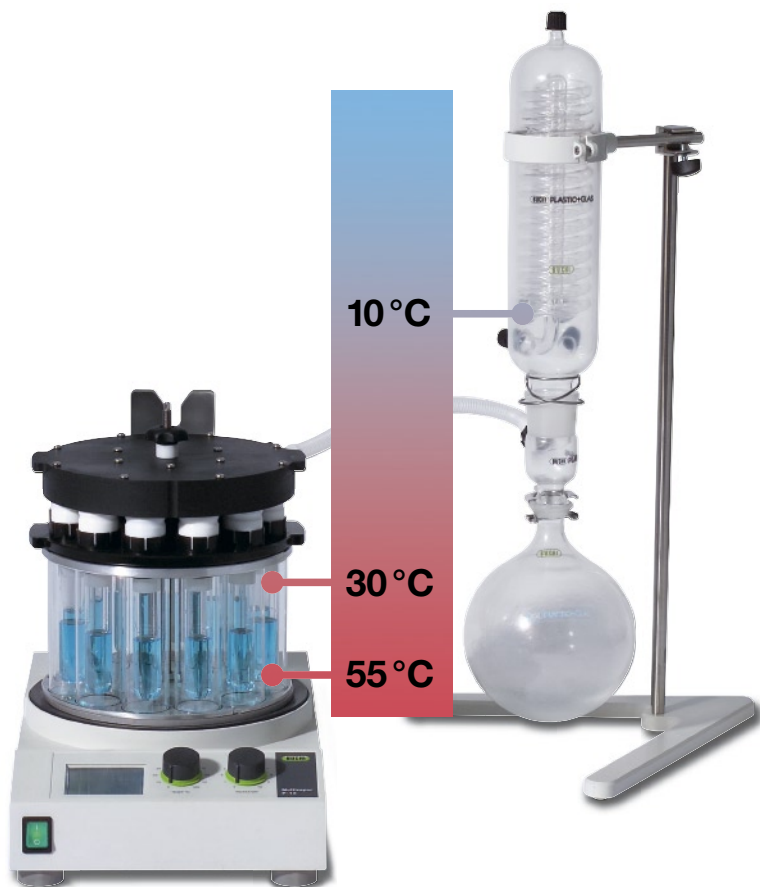


# For optimal distillation consider the Büchi rule



## For evaporation at 30 °C (boiling point)

1. instrument setting: 55 °C
2. cooling medium:  $\leq 10$  °C,  $\geq 500$  ml/min
3. recommended rotation setting: position 8–9
4. vacuum setting according to the Solvent List column 30 °C

# Solvent List



Solvent	Formula	Vacuum [mbar] for bp at:	
		30 °C	50 °C
Acetic acid	$C_2H_4O_2$	26	72
Acetone	$C_3H_6O$	370	815
Acetonitrile	$C_2H_3N$	134	315
<i>n</i> -Amyl alcohol, <i>n</i> -Pentanol	$C_5H_{12}O$	6	20
<i>n</i> -Butanol	$C_4H_{10}$	14	44
<i>tert</i> -Butanol	$C_4H_{10}O$	78	231
Chlorobenzene	$C_6H_5Cl$	22	56
Chloroform	$CHCl_3$	306	665
Cyclohexane	$C_6H_{12}$	154	347
1,2-Dichloroethane	$C_2H_4Cl_2$	137	315
Dichloromethane	$CH_2Cl_2$	685	atm. press.
Diethylether	$C_4H_{10}O$	838	atm. press.
<i>trans</i> -1,2-Dichloroethylene	$C_2H_2Cl_2$	317	705
Diisopropylether	$C_6H_{14}O$	251	545
Dioxane	$C_4H_8O_2$	68	165
Dimethylformamide (DMF)	$C_3H_7NO$	6	17
Ethanol	$C_2H_6O$	97	276
Ethylacetate	$C_4H_8O_2$	153	366
Heptane	$C_7H_{16}$	77	183
Hexane	$C_6H_{14}$	241	525
Isopropylalcohol	$C_3H_8O$	78	231
Isoamylalcohol	$C_5H_{12}O$	9	29
Methyl <i>tert</i> -buthyl ether (MTBE)	$C_5H_{12}O$	413	835
Methyl ethyl ketone (MEK)	$C_4H_8O$	160	359
Methanol	$CH_4O$	236	607
Pentane	$C_5H_{12}$	819	atm. press.
<i>n</i> -Propanol	$C_3H_8O$	37	115
Pentachloroethane	$C_2HCl_5$	8	21
Tetrachloromethane	$CCl_4$	179	398
Tetrahydrofuran (THF)	$C_4H_8O$	234	539
Toluene	$C_7H_8$	48	118
Trichloroethylene	$C_2HCl_3$	119	275
Water	$H_2O$	42	120
Xylene	$C_8H_{10}$	15	40

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