

LIST OF SOLVENTS



Solvent	Formula	Vacuum (mbar) for bp at 40°C
Acetic acid	C ₂ H ₄ O ₂	44
Acetone	C ₃ H ₆ O	556
Acetonitrile	C ₂ H ₃ N	226
N-Amylalcohol, n-Pentanol	C ₅ H ₁₂ O	11
n-Butanol	C ₄ H ₁₀	25
tert. Butanol, 2-Methyl-2-Propanol	C ₄ H ₁₀ O	130
Butylacetate	C ₆ H ₁₂ O ₂	39
Chlorobenzene	C ₆ H ₅ Cl	36
Chloroform	CHCl ₃	474
Cyclohexane	C ₆ H ₁₂	235
Dichloromethane, Methylenechloride	CH ₂ Cl ₂	atm. press*
Diethylether	C ₄ H ₁₀ O	atm. press*
1,2,-Dichloroethylene (trans)	C ₂ H ₂ Cl ₂	751
Diisopropylether	C ₆ H ₁₄ O	375
Dioxane	C ₄ H ₈ O ₂	107
Dimethylformamide (DMF)	C ₃ H ₇ NO	11
Ethanol	C ₂ H ₆ O	175
Ethylacetate	C ₄ H ₈ O ₂	240
Ethylmethylketone	C ₄ H ₈ O	243
Heptane	C ₇ H ₁₆	120
Hexane	C ₆ H ₁₄	335
Isopropylalcohol	C ₃ H ₈ O	137
Isoamylalcohol, 3-Methyl-1-Butanol	C ₅ H ₁₂ O	14
Methanol	CH ₄ O	337
Pentane	C ₅ H ₁₂	atm. press*
n-Propylalcohol	C ₃ H ₈ O	67
Pentachloroethane	C ₂ HCl ₅	13
1,1,2,2,-Tetrachloroethane	C ₂ H ₂ Cl ₄	35
1,1,1,-Trichloroethane	C ₂ H ₃ Cl ₃	300
Tetrachloroethylene	C ₂ Cl ₄	53
Tetrachloromethane	CCl ₄	271
Tetrahydrofurane (THF)	C ₄ H ₈ O	357
Toluene	C ₇ H ₈	77
Trichloroethylene	C ₂ HCl ₃	183
Water	H ₂ O	72
Xylene	C ₈ H ₁₀	25

*is recommended ~850 mbar

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Laboratory Processes!**

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Chromatography

Büchi offers a broad range of laboratory solutions in high quality.



Synthesis

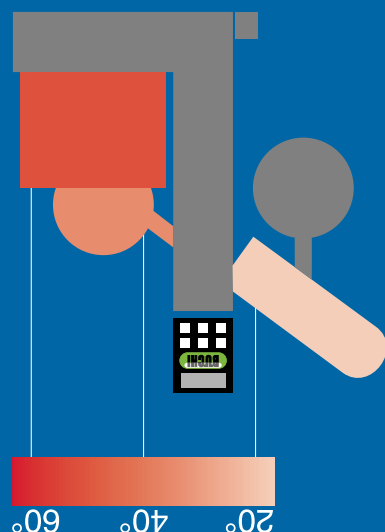
Evaporation

Drying

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- The 20/40/60 rule**
1. Set bath temperature at 60°C.
 2. Cooling water temperature below 20°C.
 3. Adjust needed vacuum for a boiling point of 40°C according to the list of solvents.

OPTIMAL DISTILLATION PARAMETERS

for ROTAVAPOR®