



## After-hours Preparation of IV solutions using Potassium Chloride (KCl) 1 mmol/mL Solution

See Medication Management Policy 25.05 [Administration of High Alert Medications](#) and Potassium Parenteral Administration Guidelines

**NOTE: All orders for KCl should be written as mmol/L.**

Desired Concentration of KCl in mmol/L	Equivalent mEq%	Volume of KCl 1 mmol/mL to add to ordered IV solution				
		100 mL bag	250 mL bag	290 mL bag (NICU/PICU only)	500 mL bag	1,000 mL bag
10 mmol/L	1 mEq%	1 mL	2.5 mL	2.9 mL	5 mL	10 mL
20 mmol/L	2 mEq%	2 mL	5 mL	5.8 mL	10 mL	20 mL
30 mmol/L	3 mEq%	3 mL	7.5 mL	8.7 mL	15 mL	30 mL
40 mmol/L	4 mEq%	4 mL	10 mL	11.6 mL	20 mL	40 mL
50 mmol/L	5 mEq%	5 mL	12.5 mL	14.5 mL	25 mL	50 mL
60 mmol/L	6 mEq%	6 mL	15 mL	17.4 mL	30 mL	60 mL

Whenever possible, use premixed KCl bags in concentrations available from Stores (see chart below). **No additional KCl may be added to a premixed KCl bag to increase the KCl concentration.**

**(1 mmol KCl = 1 mEq KCl)**

KCl 1 mmol/mL (10 mL syringe) available from PICU or NICU Pyxis medstations after hours.

Two health care providers must check current prescriber's order, dosage, frequency, route, drug and calculations. **Calculations must be independently double checked.** The two health care providers must sign the medication administration record (MAR). If there is uncertainty, the on-call Pharmacist may be paged to verify calculations **AFTER** the independent double check is complete and the above table has been reviewed.

- Once KCl is added to the IV solution mix well to ensure complete dispersion before administration.
- Consult Micromedex for compatibility information.

### CENTRAL STORES ITEMS: BAXTER® Premix Potassium Chloride Solutions

Product NOTE: 1 mmol KCl = 1 mEq KCl	size (mL)	KCl Concentration	IWK Stores Catalogue #	Baxter #	Stability Out of Wrap
20 mmol KCl in 5% Dextrose & 0.45% Sodium Chloride Inj.	1000	20 mmol/L (2 mEq%)	103389	JB1654	20 days
40 mmol KCl in 5% Dextrose & 0.45% Sodium Chloride Inj.	1000	40 mmol/L (4 mEq%)	103390	JB1674	20 days
20 mmol KCl in 5% Dextrose & 0.9% Sodium Chloride Inj.	1000	20 mmol/L (2 mEq%)	103959	JB2434	20 days
40 mmol KCl in 5% Dextrose & 0.9% Sodium Chloride Inj.	1000	40 mmol/L (4 mEq%)	104020	2B2454X	20 days
20 mmol KCl in 3.3% Dextrose & 0.3% Sodium Chloride Inj.	1000	20 mmol/L (2 mEq%)	103365	JB1424	20 days
40 mmol KCl in 3.3% Dextrose & 0.3% Sodium Chloride I Inj.	1000	40 mmol/L (4 mEq%)	104126	JB1434	20 days
20 mmol KCl in 0.45% Sodium Chloride Inj.	1000	20 mmol/L (2 mEq%)	186085	JB1357	20 days
20 mmol KCl in 0.9% Sodium Chloride Inj.	1000	20 mmol/L (2 mEq%)	103392	JB1764	20 days
40 mmol KCl in 0.9% Sodium Chloride Inj.	1000	40 mmol/L (4 mEq%)	103961	JB1984	20 days
20 mmol KCl in Lactated Ringers Inj	1000	20 mmol/L (2 mEq%)	103962	JB2024	20 days