

Pharmacy Conversion Chart

Quick Reference for Healthcare Professionals

Metric Weight Conversions

Unit	Equivalent
1 kilogram (kg)	1,000 grams (g)
1 gram (g)	1,000 milligrams (mg)
1 milligram (mg)	1,000 micrograms (mcg)
1 microgram (mcg)	0.001 milligrams (mg)

Metric Volume Conversions

Unit	Equivalent
1 liter (L)	1,000 milliliters (mL)
1 milliliter (mL)	1 cubic centimeter (cc)
1 deciliter (dL)	100 milliliters (mL)

Household to Metric Conversions

Household	Metric Equivalent
1 teaspoon (tsp)	5 mL
1 tablespoon (tbsp)	15 mL
1 fluid ounce (fl oz)	30 mL
1 cup	240 mL
1 pint	480 mL
1 quart	960 mL
1 gallon	3,840 mL

Apothecary Conversions (Legacy)

Apothecary	Metric Equivalent
1 grain (gr)	60-65 mg (use 60 mg)
15 grains	1 gram (1,000 mg)
1 dram	4 mL
1 fluid dram	5 mL

Temperature Conversions

Fahrenheit (°F)	Celsius (°C)
32°F (freezing)	0°C
98.6°F (body temp)	37°C
212°F (boiling)	100°C
$^{\circ}\text{C} = (\text{°F} - 32) \times 5/9$	$\text{°F} = (\text{°C} \times 9/5) + 32$

Concentration Expressions

Expression	Example
% w/v (grams per 100 mL)	5% = 5 g/100 mL
% w/w (grams per 100 g)	10% = 10 g/100 g
% v/v (mL per 100 mL)	70% = 70 mL/100 mL
mg/mL	250 mg/5 mL = 50 mg/mL
ratio strength	1:1000 = 1 g in 1000 mL

Roman Numerals (Prescription Writing)

Roman	Arabic	Roman	Arabic
I or i	1	VI or vi	6
II or ii	2	VII or vii	7
III or iii	3	VIII or viii	8
IV or iv	4	IX or ix	9
V or v	5	X or x	10
L	50	C	100
D	500	M	1,000

Time Conversions (24-hour clock)

12-hour	24-hour (Military)	12-hour	24-hour (Military)
12:00 AM	0000	12:00 PM	1200
1:00 AM	0100	1:00 PM	1300
2:00 AM	0200	2:00 PM	1400
6:00 AM	0600	6:00 PM	1800
12:00 PM	1200	11:59 PM	2359

Educational Reference Only — Always verify calculations in clinical practice
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