

# Conversion Factors HART

you know	multiply by	to find	when you know	multiply by	to find	when you know	multiply by	to find	
<b>length</b>			<b>length</b>						
meters	0.3048	feet	inches	0.0254	centimeters	feet	0.3048	meters	
centimeters	0.0328	inches	yards	0.9144	meters	yards	0.9144	meters	
millimeters	0.0394	inches	meters	1.0936	yards	meters	1.0936	yards	
grams	0.035	ounce	ounces	28.35	grams	ounces	28.35	grams	
grams	0.032	ounce (apoth.)	ounces (apoth.)	31.10	grams	ounces (apoth.)	31.10	grams	
kilograms	2.20	pounds	pounds	4.54	kilograms	pounds	4.54	kilograms	
kilograms	2.68	pounds (apoth.)	short tons	0.907	kilograms	short tons	0.907	kilograms	
tons (1,000 kg)	1.10	short tons	inches	25.40	centimeters	inches	25.40	centimeters	
ounces	28.35	grams	inches	2.54	centimeters	inches	2.54	centimeters	
ounces (apoth.)	31.10	grams	feet	30.48	centimeters	feet	30.48	centimeters	
pounds	4.54	kilograms	miles	1.61	kilometers	miles	1.61	kilometers	
pounds (apoth.)	3.70	kilograms	miles	1.61	kilometers	miles	1.61	kilometers	
short tons (2,000 lb)	0.91	metric tons	<b>speed</b>						
<b>speed</b>			<b>temperature</b>						
miles per hour	1.61	kilometers per hour	degrees Fahrenheit	(°C - 32) × 1.8	degrees Celsius	kilometers per hour	0.62	miles per hour	
kilometers per hour	0.62	miles per hour	degrees Celsius	(°C × 1.8) + 32	degrees Fahrenheit	miles per hour	0.62	miles per hour	
<b>volume</b>			<b>metric prefixes</b>						
liters	0.20	teaspoons	milliliters	10 <sup>-3</sup>	=	1,000,000,000,000,000,000	exa-	E	10 <sup>18</sup>
milliliters	0.07	tablespoons	milliliters	10 <sup>-6</sup>	=	1,000,000,000,000,000	peta-	P	10 <sup>15</sup>
fluid ounces	0.03	cups	liters	10 <sup>-9</sup>	=	1,000,000,000,000	tera-	T	10 <sup>12</sup>
liters	2.11	fluid ounces	liters	10 <sup>-12</sup>	=	1,000,000,000,000	giga-	G	10 <sup>9</sup>
liters	1.06	cups	liters	10 <sup>-15</sup>	=	1,000,000,000,000,000	mega-	M	10 <sup>6</sup>
liters	0.26	cups	liters	10 <sup>-18</sup>	=	1,000,000,000,000,000,000	kilo-	k	10 <sup>3</sup>
cubic meters	1.35	gallons	hecto-	h	10 <sup>2</sup>	=	100		
cubic meters	1.35	gallons	deca-	da	10 <sup>1</sup>	=	10		
cubic meters	1.35	gallons	deci-	d	10 <sup>-1</sup>	=	0.1		
teaspoons	4.93	milliliters	centi-	c	10 <sup>-2</sup>	=	0.01		
tablespoons	14.79	milliliters	milli-	m	10 <sup>-3</sup>	=	0.001		
fluid ounces	29.57	milliliters	micro-	μ	10 <sup>-6</sup>	=	0.000,000		
cups	0.24	liters	nano-	n	10 <sup>-9</sup>	=	0.000,000,000		
pints	0.47	liters	pico-	p	10 <sup>-12</sup>	=	0.000,000,000,000		
quarts	0.95	liters	femto-	f	10 <sup>-15</sup>	=	0.000,000,000,000,000		
gallons	3.79	liters	atto-	a	10 <sup>-18</sup>	=	0.000,000,000,000,000,000		
cubic feet	0.03	cubic meters							
cubic yards	0.76	cubic meters							
cubic feet	0.03	cubic meters							
cubic yards	0.76	cubic meters							
10 <sup>-18</sup>	=	0.000,000,000,000,000,000							