

Common Conversion Factors

Convert From	Convert Into	Multiply By
Angstrom units	Centimeter	1.0 x 10 ⁸
	Inches	3.9370 x 10 ⁹
	Microns	0.0001
	Millimeters	1.0 x 10 ⁷
	Mils	3.9370 x 10 ⁶
Atmospheres (std.)	Bars	1.01325
	Inches of Hg @ 32°F	29.9213
	Millibars	1013.25
	Mm of Hg @ 0°C	760.0
	Torr	760.0
Bars	Atmospheres (std.)	0.98692
	Inches of Hg @ 32°F	29.5299
	Millibars	1000.00
	Mm of Hg @ 0°C	750.062
	Torr	750.062
Centimeters	Angstrom units	1.0 x 10 ⁸
	Inches	0.39370
	Microns	1.0 x 10 ⁴
	Millimeters	10.0
	Mils	393.701
Cubic Centimeters	Cubic Inches	0.06102
	Drams (fluid)	0.27051
	Gallons (UK liquid)	2.1997 x 10 ⁻⁴
	Gallons (US liquid)	2.6417 x 10 ⁻⁴
	Liters	1.0 x 10 ⁻³
	Milliliters	1.0
	Ounces (UK liquid)	0.03519
Ounces (US liquid)	0.03381	
Cubic Inches	Cubic Centimeters	16.3871
	Drams (fluid)	4.43290
	Gallons (UK liquid)	3.6046 x 10 ⁻³
	Gallons (US liquid)	4.3290 x 10 ⁻³
	Liters	0.01639
	Milliliters	16.3871
	Ounces (UK liquid)	0.57674
Ounces (US liquid)	0.55411	
Drams (fluid)	Cubic Centimeters	3.69672
	Cubic Inches	0.22559
	Gallons (UK liquid)	8.1316 x 10 ⁻⁴
	Gallons (US liquid)	9.7657 x 10 ⁻⁴
	Liters	3.6967 x 10 ⁻³
Gallons (UK liquid)	Cubic Centimeters	4546.09
	Cubic Inches	277.419
	Drams (fluid)	1229.76
	Gallons (US liquid)	1.20095
	Liters	4.54609
Gallons (US liquid)	Cubic Centimeters	3785.41
	Cubic Inches	231.0
	Drams (fluid)	1023.99
	Gallons (UK liquid)	0.83267
	Liters	3.78541
Grams	Kilograms	1.0 x 10 ⁻³
	Ounces (avdp)	0.03527
	Ounces (troy)	0.03215
	Pounds (avdp)	2.2046 x 10 ⁻³
	Pounds (troy)	2.6791 x 10 ⁻³
Inches	Angstrom units	2.540 x 10 ⁸
	Centimeters	2.54
	Microns	25400.0
	Millimeters	25.40
	Mils	1000.0
Inches of Hg @ 32°F	Atmospheres (std.)	0.03342
	Bars	0.03386
	Millibars	33.8639
	Mm of Hg @ 0°	25.4000
	Torr	25.4000
Kilograms	Grams	1000.00
	Ounces (avdp)	35.2739
	Ounces (troy)	32.1505
	Pounds (avdp)	2.20462
	Pounds (troy)	2.67921

Temperature	°C = (°F - 32) x 0.56
	°F = (°C x 1.8) + 32
Power	Amperage = Wattage / Voltage
	Voltage = Wattage / Amperage
	Wattage = Voltage x Amperage

Convert From	Convert Into	Multiply By	
Liters	Cubic Centimeters	1000.03	
	Cubic Inches	61.0237	
	Drams (fluid)	270.510	
	Gallons (UK liquid)	0.21997	
	Gallons (US liquid)	0.26418	
	Milliliters	1000.03	
	Ounces (UK liquid)	35.1951	
	Ounces (US liquid)	33.8149	
	Microns	Angstrom units	10000.0
		Centimeters	1.0 x 10 ⁴
Inches		3.9370 x 10 ⁵	
Millimeters		1.0 x 10 ³	
Mils		0.03937	
Millibars	Atmosphere (std.)	9.8692 x 10 ⁻⁴	
	Bars	1.0 x 10 ⁻³	
	Inches of Hg @ 32°F	0.02953	
	Mm of Hg @ 0°C	0.75006	
Milliliters	Cubic Centimeters	1.0000	
	Cubic Inches	0.06102	
	Drams (fluid)	0.27051	
	Gallons (UK liquid)	2.1997 x 10 ⁻⁴	
	Gallons (US liquid)	2.6417 x 10 ⁻⁴	
	Liters	1.0 x 10 ⁻³	
	Ounces (UK liquid)	0.03519	
Ounces (US liquid)	0.03381		
Millimeters	Angstrom units	1.0 x 10 ⁷	
	Centimeters	0.10	
	Inches	0.03937	
	Microns	1000.0	
Millimeters Hg @ 0°C	Atmospheres (std.)	1.3158 x 10 ⁻³	
	Bars	1.3332 x 10 ⁻³	
	Inches of Hg @ 32°F	0.03937	
	Millibars	1.333221	
	Torr	1.0	
Mils	Angstrom units	254000.0	
	Centimeters	2.540 x 10 ⁻³	
	Inches	1.0 x 10 ⁻³	
	Microns	25.40	
	Millimeters	0.0254	
Ounces (avdp)	Grams	28.3495	
	Kilograms	0.02835	
	Ounces (troy)	0.91146	
	Pounds (avdp)	0.06250	
	Pounds (troy)	0.07596	
Ounces (troy)	Grams	31.1035	
	Kilograms	0.03110	
	Ounces (avdp)	1.09714	
	Pounds (avdp)	0.06857	
	Pounds (troy)	0.08333	
Ounces (UK liquid)	Cubic Centimeters	28.4131	
	Cubic Inches	1.73387	
	Drams (fluid)	7.68603	
	Gallons (UK liquid)	6.250 x 10 ⁻³	
	Gallons (US liquid)	7.8125 x 10 ⁻³	
	Liters	0.02841	
	Milliliters	28.4131	
Ounces (US liquid)	0.96076		
Ounces (US liquid)	Cubic Centimeters	29.5735	
	Cubic Inches	1.80469	
	Drams (fluid)	8.0	
	Gallons (UK liquid)	6.5053 x 10 ⁻³	
	Gallons (US liquid)	7.8125 x 10 ⁻³	
	Liters	0.02957	
	Milliliters	29.5735	
Ounces (UK liquid)	1.04084		
Pounds (avdp)	Grams	453.592	
	Kilograms	0.45359	
	Ounces (avdp)	16.0	
	Ounces (troy)	14.5833	
	Pounds (troy)	1.21528	
Pounds (troy)	Grams	373.242	
	Kilograms	0.37324	
	Ounces (avdp)	13.1657	
	Ounces (troy)	12.0	
	Pounds (avdp)	0.82286	
Torr	Atmospheres (std.)	1.3158 x 10 ⁻³	
	Bars	1.3332 x 10 ⁻³	
	Inches of Hg @ 32°F	0.03937	
	Millibars	1.33322	
	Mm of Hg @ 0°C	1.0	

Chemical Compatibility

Chemical	Container Materials							Closure Liner Materials					Closure Materials				Septa, Stopper & Tubing Materials						
	Glass	HDPE	LDPE	PC	PET	PETG	PP	Al Foil	LDPE	Poly-Vinyl	PTFE	SBR	Silicone	PBT	Phenolic	PP	Urea	Butyl Rubber	Natural Rubber	FKM	PTFE	Silicone	TPE
Acetic acid, Glacial	A	A	B	C	A	C	A	A	B	B	A	C	B	C	A	A	D	B	D	B	A	B	B
Acetone	A	D	D	C	D	B	A	D	D	A	D	B	D	D	A	B	A	B	D	B	A	B	D
Acetonitrile	A	A	A	D	B	C	A	A	A	D	A	B	D	-	A	A	-	D	D	D	A	D	D
Acrylonitrile	A	A	A	D	B	-	B	B	A	D	A	C	D	-	D	B	-	D	D	D	A	D	-
Ammonium Sulfide	A	A	A	D	-	-	A	D	A	A	A	B	A	-	A	A	C	A	C	A	A	A	B
Benzene	A	D	D	D	C	D	D	B	D	D	A	D	D	A	A	D	A	D	A	D	A	D	D
Bleach	A	A	B	B	C	C	B	D	B	A	A	D	B	C	D	B	-	A	A	D	A	B	A
Boric Acid	A	A	A	A	A	A	A	D	A	A	A	A	A	A	B	A	-	A	A	A	A	A	B
Carbonic Acid	A	A	A	A	-	A	A	B	A	A	A	B	A	B	-	A	-	A	A	A	A	A	D
Chlorobenzene	A	C	D	D	B	C	C	A	D	D	A	D	D	B	A	C	B	D	A	D	A	D	D
Chloroform	A	C	C	D	D	D	D	A	C	D	A	D	D	D	A	D	A	D	A	D	A	D	D
Dichloromethane (DCM)	A	C	D	D	D	D	C	D	D	D	A	D	D	D	C	C	B	D	B	D	A	D	D
Diethylamine	A	C	D	D	-	-	B	A	D	D	A	B	B	-	-	B	-	B	C	B	A	B	-
Dimethyl Formamide (DMF)	A	A	A	D	B	C	A	A	A	D	A	D	B	C	A	A	-	D	D	D	A	B	C
Dimethyl Sulfoxide (DMSO)	A	A	A	D	B	C	A	A	A	D	A	D	D	C	-	A	-	D	D	D	A	D	-
Dioxane	A	B	B	D	A	A	D	D	B	D	A	D	D	B	A	D	-	B	D	D	A	D	-
Ether	A	C	D	D	A	A	D	B	D	D	A	D	D	A	B	D	B	D	C	D	A	D	D
Ethyl Acetate	A	B	B	D	B	C	C	B	B	D	A	D	C	C	A	C	B	C	D	D	A	C	D
Ethyl Alcohol	A	A	A	A	A	A	A	B	A	B	A	A	B	A	B	A	A	A	A	A	A	B	B
Ethylene Glycol	A	A	A	A	A	A	A	B	A	A	A	A	A	A	B	A	B	A	A	A	A	A	B
Formaldehyde	A	A	A	A	B	A	A	A	A	C	A	B	B	A	B	A	A	A	C	C	A	B	A
Formic Acid 50%	A	A	B	B	-	-	A	C	B	B	A	B	C	A	C	A	D	A	C	B	A	C	B
Gasoline	A	C	D	C	B	B	C	A	D	D	A	D	D	A	B	C	A	D	A	D	A	D	D
Glycerine	A	A	A	A	-	A	A	A	A	C	A	A	B	A	A	A	-	A	A	A	A	B	B
Heptane	A	C	D	B	B	-	C	A	D	C	A	D	D	A	A	C	A	D	A	D	A	D	C
Hexane	A	B	D	C	C	B	B	A	D	D	A	D	D	A	B	B	-	D	A	D	A	D	B
Hydrochloric Acid (HCL) 50%	A	A	A	D	B	C	A	D	A	B	A	D	D	C	A	A	D	A	A	B	A	D	B
Hydrofluoric Acid (HF) 50%	D	A	A	D	C	D	A	D	A	C	A	D	D	C	D	A	D	C	A	C	A	D	A
Hydrogen Peroxide 50%	B	A	A	A	B	B	A	A	A	C	A	C	B	B	D	A	D	B	A	B	A	B	B
Iodine	A	C	D	C	A	-	C	A	D	C	A	B	A	D	-	C	-	B	A	D	A	A	D
Isopropyl Alcohol	A	A	A	A	A	A	A	A	A	B	A	B	A	A	A	A	-	A	A	A	A	A	B
Methyl Alcohol	A	A	A	B	B	A	A	A	A	C	A	A	A	B	B	A	A	A	D	A	A	A	A
Methyl Ethyl Ketone (MEK)	A	D	D	D	B	C	B	A	D	D	A	D	D	C	A	B	-	A	D	D	A	D	B
Methylene Chloride	A	C	D	D	D	D	C	D	D	D	A	D	D	D	C	C	B	D	B	D	A	D	D
Nitric Acid 50%	A	C	B	B	C	B	C	D	B	B	A	D	D	C	B	C	D	C	B	C	A	D	B
Pentane	A	C	C	A	-	-	D	A	C	D	A	D	D	B	-	D	-	D	A	D	A	D	B
Perchloric Acid 50%	B	B	B	D	B	C	B	D	B	D	B	D	D	-	-	B	-	B	A	D	B	D	A
Phenol 50%	A	D	D	D	D	D	D	A	D	C	A	D	D	D	A	D	-	D	A	D	A	D	D
Phosphoric Acid 50%	A	A	A	A	B	-	A	B	A	B	A	D	D	B	B	A	D	B	A	D	A	D	A
Picric Acid	A	D	D	D	B	-	D	A	D	D	A	B	D	D	A	D	D	B	A	B	A	D	D
Potassium Hydroxide	D	A	A	D	D	D	A	D	A	A	A	B	C	C	D	A	-	A	B	B	A	C	A
Sodium Hydroxide 50%	D	A	B	D	D	C	A	D	B	C	A	A	B	C	D	A	C	A	B	A	A	B	C
Sodium Peroxide	A	B	B	A	-	-	B	C	B	A	A	B	D	B	B	B	D	A	A	B	A	D	A
Sodium Thiosulfate	A	A	A	B	B	-	A	A	A	A	A	B	A	B	A	A	B	A	A	B	A	A	-
Sulfuric Acid 50%	A	A	A	B	B	C	B	C	A	C	A	D	D	B	C	B	D	D	A	D	A	D	A
Tetrahydrofuran (THF)	A	C	C	D	B	D	B	A	C	C	A	D	D	D	A	B	-	C	D	D	A	D	D
Toluene	A	C	C	D	C	C	C	A	C	C	A	D	D	D	A	C	-	D	B	D	A	D	D
Trifluoroacetic Acid (TFA) 50%	A	A	A	D	B	-	A	B	A	A	A	B	D	-	-	A	-	B	C	B	A	D	-
Vegetable Oil	A	B	B	A	A	A	A	A	B	A	A	D	A	A	A	A	A	C	A	D	A	A	-
Xylene	A	C	D	D	C	-	D	A	D	D	A	D	D	C	A	D	B	D	A	D	A	D	D