

Looking for Acid/Base  
Products and Tools?

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# Normality & Molarity Calculator

Losing time calculating dilutions to prepare acidic and basic solutions? Add Aldrich to your favorites toolbar and use our new Molarity Calculator!

## Features

- Calculates molarity for known acids and bases
- Calculates solutions from a solid reagent
- Dilute a solution of known molarity
- Results at the click of a button
- Available on your iPhone® and iPad® mobile digital devices

## Benefits

- Saves time over hand calculations
- Increased accuracy of calculations

## Easy-to-Use

1. Select Acid or Base from drop-down
2. Density, FW and Wt. % will auto-populate
3. Input desired volume and concentration
4. Click "Calculate"

To find the Normality & Molarity Calculator visit [Aldrich.com/calculator](http://Aldrich.com/calculator)



### Normality & Molarity Calculator

**Acid and Base Solution Preparation**

Select acid or base: Hydrochloric Acid


Density:  g/mL

Formula weight:  g/mol

Weight percentage:  % w/w

Desired final volume:  mL

Desired concentration:  Molar



**Results based on your selection:**

Your stock solution of **Hydrochloric Acid** is calculated to be **12.288** based on a density of **1.20** g/mL, a formula weight of **36.46** g/mol, and a concentration of **37.0%** w/w.

To make a **3 M** solution, slowly add **481.8** mL of your stock solution to **500** mL deionized water. Adjust the final volume of solution to **2000** mL with deionized water.

[View Hydrochloric Acid \(CAS# 7647-01-0\) Products](#)

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Acid & Base Molarity Calculator
Mass Molarity Calculator
Solution Dilution Calculator

The molarity calculator tool provides lab-ready directions describing how to prepare an acid or base solution of specified Molarity (M) or Normality (N) from a concentrated acid or base solution. To prepare a solution from a solid reagent, please use the Mass Molarity Calculator. To dilute a solution of known molarity, please use the Solution Dilution Calculator.

# Acids and Bases

Aldrich offers a complete line of acids and bases. To introduce our new acid/base tools, we are offering special pricing on acids and bases and the **New** MolarMatic™ cylinder.

Reference promo code **T82** when placing your order.  
Offer expires 30th September 2011.

Cat. No.	Product Description	% Discount
33209-2.5L	Acetic acid - puriss. p.a., ACS	75%
33209-4X2.5L	reagent, reag. ISO, reag. Ph. Eur., ≥99.8%	70%
221228-1L-A	Ammonium hydroxide solution -	40%
221228-500ML-A	ACS reagent, 28.0-30.0% NH <sub>3</sub> basis	30%
30501-1L	Ammonium hydroxide solution -	70%
30501-2.5L	puriss. p.a., reag. ISO, reag. Ph. Eur., ~25% NH <sub>3</sub> basis	70%
33015-2.5L	Formic acid - puriss. p.a., ACS	70%
33015-4X2.5L	reagent, reag. Ph. Eur., ≥98%	65%
248649-100ML	Hydriodic acid - ACS	45%
248649-500ML	reagent, ≥47.0%	70%
18730-1L	Hydrobromic acid - purum	30%
18730-250ML	p.a., ≥48%	20%
84422-2.5L	Hydrochloric acid - puriss. p.a., ACS	65%
	reagent, fuming, ≥37% (T)	
30721-2.5L	Hydrochloric acid - puriss. p.a., ACS	70%
30721-4X2.5L	reagent, reag. ISO, reag. Ph. Eur., fuming, ≥37%, ≤10(APHA)	65%
35335-1L	Hydrochloric acid standard	50%
35335-6X1L	solution - Reag. Ph. Eur., solution (volumetric), 0.1 M	45%
35328-1L	Hydrochloric acid standard	50%
35328-6X1L	solution - Reag. Ph. Eur., solution (volumetric), 1 M	45%
30702-2.5L	Nitric acid - puriss. p.a., ACS reagent, reag. ISO, ≥69%	40%
30709-2.5L	Nitric acid - puriss. p.a., reag. ISO,	80%
30709-4X2.5L	reag. Ph. Eur., for determinations with dithizone, ≥65%	75%

Cat. No.	Product Description	% Discount
30755-1L	Perchloric acid - puriss. p.a., ACS	60%
30755-2.5L	reagent, reag. ISO, reag. Ph. Eur.,	55%
30755-4X2.5L	70.0-72.0%	50%
30755-6X1L		55%
30417-2.5L	Phosphoric acid - puriss. p.a.,	65%
30417-4X2.5L	ACS reagent, reag. ISO, reag. Ph. Eur., ≥85%	60%
30603-1KG	Potassium hydroxide - puriss. p.a.,	55%
30603-5KG	Reag. Ph. Eur., ≥85%, pellets	60%
30603-4X5KG		50%
30603-6X1KG		50%
30620-1KG-R	Sodium hydroxide - puriss. p.a.,	55%
30620-5KG-R	ACS reagent, reag. Ph. Eur., K	55%
30620-4X5KG-R	≤0.02%, ≥99%, pellets	50%
30620-6X1KG-R		50%
30531-1L	Sodium hydroxide solution - ≥32%,	65%
30531-6X1L	for determination of nitrogen, ≤0.0001% N	60%
35263-1L	Sodium hydroxide standard	50%
35263-6X1L	solution - Reag. Ph. Eur., solution (volumetric), 0.1 M	45%
35256-1L	Sodium hydroxide standard	50%
35256-6X1L	solution - Reag. Ph. Eur., solution (volumetric), 1 M	45%
30743-2.5L	Sulfuric acid - puriss. p.a., reag. ISO,	65%
30743-4X2.5L	reag. Ph. Eur., 95-97%	55%
T6508-100ML	Trifluoroacetic acid -	40%
T6508-500ML	ReagentPlus®, 99%	40%
T6508-1L		40%

To order, please contact your local sales office.  
For more information, visit

**Aldrich.com**

# Aldrich MolarMatic™ Cylinder

Our **New** MolarMatic graduated measuring cylinder allows you to add concentrated acid to the desired Molarity line. Simply pour the measured acid into one liter of water and your 1 M, 2 M or 3 M solution is prepared.

- No calculations
- No struggling for the correct cylinder

## Convenient Dual-Scale Graduated Cylinder

- Class A 350 mL graduated scale
- 1 to 3 Molar scale on opposite side
- Eliminates repetitive Molar calculations and potential errors
- Set contains one of each cylinder in plastic storage case

## Special Introductory Pricing on MolarMatic Cylinder

Reference promo code **T82** when placing your order.  
Offer expires 30th September 2011.

Cylinders		
Acid Type	Cat. No.	% Discount
Acetic acid	Z683728-1EA	25%
	Z683728-12EA	25%
Hydrochloric acid	Z683736-1EA	25%
	Z683736-12EA	25%
Nitric acid	Z683744-1EA	25%
	Z683744-12EA	25%
Sulfuric acid	Z683752-1EA	25%
	Z683752-12EA	25%
Set of four	Z683760-1SET	25%

To order, please contact your local sales office.  
For more information, visit  
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