

# Acids & Bases



Alfa Aesar is pleased to offer a comprehensive line of high purity organic and inorganic acids and bases. These products can be used in a wide range of applications in commercial use and workup procedures. These products are also used as a solvent, a substrate, a strong acid or base, or in a catalytic amount as a Bronsted acid or base source.

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# Acids



Alfa Aesar is pleased to offer a comprehensive line of high purity organic and inorganic acids. These products can be used in a wide range of applications in commercial use and workup procedures. These products are also used as a solvent, a substrate, a strong acid, or in a catalytic amount as a Bronsted acid source.

We offer the following grades and solutions:

- Aqueous solutions
- Standardized solutions
- Acculute Standard Volumetric Solutions
- ACS Grade
- Environmental Grade
- Environmental Grade Plus

## Karl Fischer reagents














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## Analytical chemistry



















Accuracy, purity, quality >































	35567	Acetic acid, 0.1N Standardized Solution
	35566	Acetic acid, 1.0N Standardized Solution
	35569	Acetic acid, 1% v/v aq. soln.
	35572	Acetic acid, 4% v/v aq. soln.
	88556	Acetic acid, Acculute Standard Volumetric Solution, Final Concentration 1.0N
	38739	Acetic acid, Environmental Grade Plus, 99.4% min
	33252	Acetic acid, glacial, 99+%
	39745	Acetic acid, glacial, 99.7+% (metals basis)
	10994	Acetic acid, glacial, 99.9985% (metals basis)
	36289	Acetic acid, glacial, ACS, 99.7+%
	41895	Acetic acid-Trimethylpentane, 60/40 (v/v) soln.
	38741	Ammonium hydroxide, Environmental Grade, 20-22% NH <sub>3</sub>
	L17434	Formic acid, 85%
	A13285	Formic acid, 97%

	36504	Formic acid, ACS, 88+%
	36617	Formic acid, ACS, 96+%
	L10410	Hydriodic acid, 57% w/w aq. soln., stab with 1.5% hypophosphorous acid
	36490	Hydriodic acid, ACS, 47%, stab. with 1.5% hypophosphorous acid
	36484	Hydriodic acid, ACS, 55-58%
	14036	Hydrobromic acid, 48% w/w aq. soln.
	10991	Hydrobromic acid, 99.9999% (metals basis), 48% w/w aq. soln.
	36694	Hydrobromic acid, ACS, 47.0-49.0%
	35648	Hydrochloric acid, 0.01N Standardized Solution
	35646	Hydrochloric acid, 0.05N Standardized Solution
	35644	Hydrochloric acid, 0.1N Standardized Solution
	35642	Hydrochloric acid, 0.5N Standardized Solution
	35640	Hydrochloric acid, 1.0N Standardized Solution
	35611	Hydrochloric acid, 10% v/v aq. soln.
	L13091	Hydrochloric acid, 36% w/w aq. soln.
	35638	Hydrochloric acid, 5.0N Standardized Solution
	35607	Hydrochloric acid, 50% v/v aq. soln.
	43335	Hydrochloric acid, 5% v/v aq. soln.
	44921	Hydrochloric acid, 6.0N Standardized Solution

	10990	Hydrochloric acid, 99.999999% (metals basis), 33% min
	87617	Hydrochloric acid, 99.999% (metals basis), 36.5% min
	33257	Hydrochloric acid, ACS, HCl 36.5-38.0%
	38743	Hydrochloric acid, Environmental Grade, 34-37.5%
	10989	Hydrofluoric acid, 99.99% (metals basis) 40% min
	33258	Hydrofluoric acid, ACS, 48-51%
	38746	Hydrofluoric acid, Environmental Grade Plus, 47-51%
	A14475	Hydrogen bromide, 33% w/w (45% w/v) soln. in acetic acid
	H27347	Hydrogen chloride, 1M in acetic acid
	H27125	Hydrogen chloride, 1M in diethyl ether
	H32266	Hydrogen chloride, 1M soln. in ethyl acetate
	H26914	Hydrogen chloride, 2M in diethyl ether
	H33398	Hydrogen chloride, 3M in cyclopentyl methyl ether
	A16935	Hydrogen chloride, 4M in 1,4-dioxane, 99%
	H31519	Hydrogen chloride, 5 to 6M soln. in 2-propanol, pure
	H31570	Hydrogen chloride, ca 0.5M soln. in methanol
	44605	Hydrogen chloride, nominally 2.5M in ethanol

	A11925	Iodic acid, 99%
	87681	Iodic acid, ACS, 99.5% min
	B20932	Metaphosphoric acid, 39-43%, bal. NaPO <sub>3</sub> (Stablizer)
	33267	Metaphosphoric acid, ACS, 33.5-36.5%, bal. NaPO <sub>3</sub> (Stablizer)
	35626	Nitric acid, 0.1N Standardized Solution
	35624	Nitric acid, 1.0N Standardized Solution
	44528	Nitric acid, 2.0N Standardized Solution
	10984	Nitric acid, 65-70%, 99.9999% (metals basis)
	87920	Nitric acid, 65-70%, 99.999% (metals basis)
	33260	Nitric acid, ACS, 68.0-70.0%
	33261	Nitric acid, ACS, fuming, 90%
	38747	Nitric acid, Environmental Grade, 67-70%
	38748	Nitric acid, Environmental Grade Plus, 68-70%
	35608	Perchloric acid, 0.1N in Acetic Acid Standardized Solution
	10983	Perchloric acid, 70%, 99.9985% (metals basis)
	L13298	Perchloric acid, 70% aq. soln.
	44464	Perchloric acid, ACS, 48-50%
	33263	Perchloric acid, ACS, 60-62%

	87963	Perchloric acid, ACS, 69.0-72.0%, redistilled
	38750	Perchloric acid, Environmental Grade Plus, 65-71%
	B20172	Periodic acid, 34% w/w aq. soln.
	B20433	Periodic acid, 99%
	30472	Periodic acid, ACS, 99.0-101.0%
	A18067	Phosphoric acid, 85% aq. soln.
	33266	Phosphoric acid, 85% w/w aq. soln., ACS
	89407	Phosphorous acid, 97%
	A11189	Phosphorous acid, 98+%
	L14856	Polyphosphoric acid, ca 84% (as phosphorus pentoxide)
	11019	Sodium chloride, Optical Grade
	41540	Sulfanilic acid, ACS, 98.0-102.0%
	35649	Sulfuric acid, 0.02N Standardized Solution
	45048	Sulfuric acid, 0.05N Standardized Solution
	35651	Sulfuric acid, 0.1N Standardized Solution
	45062	Sulfuric acid, 0.2N Standardized Solution

	35653	Sulfuric acid, 0.5N Standardized Solution
	35655	Sulfuric acid, 1.0N Standardized Solution
	42552	Sulfuric acid, 10% v/v aq. soln.
	45542	Sulfuric acid, 15% fuming, 12-17% free SO <sub>3</sub>
	42554	Sulfuric acid, 15% v/v aq. soln.
	45543	Sulfuric acid, 20% fuming, 18-24% free SO <sub>3</sub>
	39669	Sulfuric acid, 20% v/v aq. soln.
	43082	Sulfuric acid, 3.0N Standardized Solution
	35613	Sulfuric acid, 5.0N Standardized Solution
	39668	Sulfuric acid, 50% v/v aq. soln.
	35606	Sulfuric acid, 5% v/v aq. soln.
	35610	Sulfuric acid, 6.0N Standardized Solution



# Bases



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- Environmental Grade Plus

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## Analytical chemistry





Accuracy, purity, quality >



	35576	Ammonium hydroxide, 0.1N Standardized Solution
	35614	Ammonium hydroxide, 1.0N Standardized Solution
	35575	Ammonium hydroxide, 10% v/v aq. soln.
	87903	Ammonium hydroxide, 25% NH <sub>3</sub> , 99.99% (metals basis)
	35577	Ammonium hydroxide, 5.0N Standardized Solution
	35574	Ammonium hydroxide, 50% v/v aq. soln.
	88576	Ammonium hydroxide, Acculute Standard Volumetric Solution, Final Concentration 0.1N
	33285	Ammonium hydroxide, ACS, 28.0-30.0% NH <sub>3</sub>
	38741	Ammonium hydroxide, Environmental Grade, 20-22% NH <sub>3</sub>
	L13235	Hydrogen peroxide, 27% w/w aq. soln., stab.
	L14000	Hydrogen peroxide, 35% w/w aq. soln., stab.
	33323	Hydrogen peroxide, ACS, 29-32% w/w aq. soln., stab.
	35599	Potassium hydroxide, 0.1N Standardized Solution
	42734	Potassium hydroxide, 0.1N Standardized Solution in methanol

	35595	Potassium hydroxide, 0.5N Standardized Solution
	42735	Potassium hydroxide, 0.5N Standardized Solution in methanol
	35592	Potassium hydroxide, 1.0N Standardized Solution
	42736	Potassium hydroxide, 1.0N Standardized Solution in methanol
	35615	Potassium hydroxide, 10% w/v aq. soln.
	46330	Potassium hydroxide, 25% w/v aq. soln.
	10979	Potassium hydroxide, 30% w/v aq. soln.
	46072	Potassium hydroxide, 45% w/w aq. soln
	35621	Potassium hydroxide, 50% w/v aq. soln.
	44273	Potassium hydroxide, 99.98% (metals basis), 85% min
	88604	Potassium hydroxide, Acculute Standard Volumetric Solution, Final Concentration 0.1N
	88602	Potassium hydroxide, Acculute Standard Volumetric Solution, Final Concentration 0.5N
	13451	Potassium hydroxide, ACS, 85% min, $K_2CO_3$ 2.0% max
	A16199	Potassium hydroxide, flake, 85%
	A18854	Potassium hydroxide, pellets, 85%
	36596	Soda lime, ACS
	44786	Soda lime, indicating
	44697	Soda lime, indicating, ACS

	A19352	Soda lime, indicator grade
	35620	Sodium hydroxide, 0.01N Standardized Solution
	35623	Sodium hydroxide, 0.05N Standardized Solution
	35625	Sodium hydroxide, 0.1N Standardized Solution
	35627	Sodium hydroxide, 0.5N Standardized Solution
	35635	Sodium hydroxide, 10.0N Standardized Solution
	35629	Sodium hydroxide, 1.0N Standardized Solution
	35631	Sodium hydroxide, 2.0N Standardized Solution
	35637	Sodium hydroxide, 20% w/v aq. soln.
	43771	Sodium hydroxide, 25% w/v aq. soln.
	87864	Sodium hydroxide, 30% w/w aq. soln.
	35639	Sodium hydroxide, 40% w/v aq. soln.
	35633	Sodium hydroxide, 5.0N Standardized Solution
	33382	Sodium hydroxide, 50% w/w aq. soln.
	35604	Sodium hydroxide, 5% w/v aq. soln.
	88623	Sodium hydroxide, Acculute Standard Volumetric Solution, Final Concentration 0.1N
	88620	Sodium hydroxide, Acculute Standard Volumetric Solution, Final Concentration 0.5N
	A18395	Sodium hydroxide, flake, 98%

	13455	Sodium hydroxide (low chloride), ACS, 97.0% min
	41281	Sodium hydroxide monohydrate, 99.996% (metals basis)
	B24414	Sodium hydroxide, pearl, 97%
	A16037	Sodium hydroxide, pellets, 98%

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