



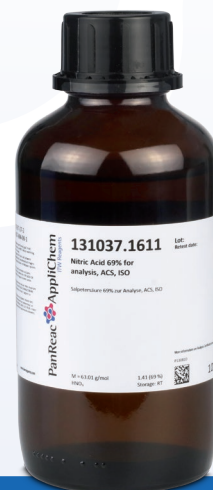
Nitric Acid 69% substitutes Nitric Acid 65%

Nitric acid 65% will be discontinued as of January 1, 2020 and can be replaced by nitric acid 69%.

Nitric Acid 69% will provide the following advantages:

- Higher purity
- The quality "pure" is also pharma grade, complying with the specifications of the European and US Pharmacopoeias
- The quality "for analysis" meets the requirements of ACS and US Pharmacopoeia thanks to the higher concentration

Nitric acid 69% pure has better specifications compared to nitric acid 65% pure, as shown in the table below.



Specifications	Code 143255 Nitric Acid 65% pure	Code 141037 Nitric Acid 69% (USP-NF, BP, Ph. Eur.) pure, pharma grade
Assay (Acidim.)	65%	69,0–70,0%
Identity according to Pharmacopoeias	-	Passes test
Appearance of solution	-	Passes test
Residue on ignition (as SO ₄)	0,005%	0,000 5%
Chloride (Cl)	0,000 5%	0,000 05%
Sulfate (SO ₄)	0,001%	0,000 1%
Clarity and colour	-	Passes test
Residual solvents (Ph. Eur./USP)	-	Passes test
Heavy metals (as Pb)	-	0,000 02%
Fe	0,000 1%	0,000 02%
Elemental impurities (ICH Q3D)	-	Passes test
As	0,000 005%	Passes test for Elemental impurities ICH Q3D
Cu	0,000 05%	Passes test for Elemental impurities ICH Q3D
Pb	0,000 05%	Passes test for Elemental impurities ICH Q3D

Another advantage is, that in some cases, because of the higher concentration, you will need less quantity to prepare the same solution. Here some examples for the preparation of 1 L solutions:

Final concentration	Using HNO ₃ 65%	Using HNO ₃ 69%	Saving
12,5% w/v	137 mL	128 mL	9 mL
40% w/v	440 mL	410 mL	30 mL



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In the following table you can find the alternative code to the current Nitric Acid 65%.

No longer available			Alternative		
Nitric Acid 65%	Size	Code	Nitric Acid 69%	Size	Code
Nitric Acid 65% for trace metal analysis (ppm)	250 mL	383255.1609	Nitric Acid 69% for trace metal analysis (ppm)	250 mL	381037.1609
	1000 mL	383255.1611		1000 mL	381037.1611
Nitric Acid 65% (max. 0.000 000 5% Hg) for analysis	1000 mL	473255.1611	Nitric Acid 69% (max. 0.000 000 5% Hg) for analysis	1000 mL	471037.1611
	2,5 L	473255.1612		2,5 L	471037.1612
Nitric Acid 65% for analysis, ISO	1000 mL	133255.1611	Nitric Acid 69% (Reag. USP, Ph. Eur.) for analysis, ACS, ISO	1000 mL	131037.1611
	2,5 L	133255.1612		2,5 L	131037.1612
	5 L	133255.1214		5 L	131037.1214
	25 L	133255.0816		25 L	-
Nitric Acid 65% pure	1000 mL	143255.1611	Nitric Acid 69% (USP-NF, BP, Ph. Eur.) pure, pharma grade	1000 mL	141037.1611
	2,5 L	143255.1612		2,5 L	141037.1612
	5 L	143255.1214		5 L	141037.1214
	25 L	143255.0716		25 L	141037.0716
Nitric Acid 65% technical grade	1000 mL	213255.1611	Nitric Acid 69% technical grade	1000 mL	211037.1611
	2,5 L	213255.1212		2,5 L	211037.1212
	5 L	213255.1214		5 L	211037.1214
	25 L	213255.0716		25 L	211037.0716

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