

## **Amino acids in 0.1 mol/L hydrochloric acid**

Art. ID	NIST-2389a
Unit	5 x 1,2 mL
Deliverydetails	ADR Excepted Quantity (EQ) / AIR Excepted Quantity (EQ) UN1789 III E1

### Description

This Standard Reference Material (SRM®) is intended primarily for use in calibration of chromatographic instrumentation for the determination of amino acids. NIST-2389a is a solution of 17 amino acids in a 0.1 mol/L aqueous solution of hydrochloric acid. A unit of NIST-2389a consists of five 2-mL ampoules each containing approximately 1.2 mL of the solution under argon. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Alanine	[302-72-7]	0,223 ± 0,007	mg/g		
	Arginine		0,436 ± 0,012	mg/g		
	Aspartic acid	[56-84-8]	0,333 ± 0,010	mg/g		
	L-Cystine	[56-89-3]	0,295 ± 0,013	mg/g		
	Glutamic acid		0,368 ± 0,011	mg/g		
	Glycine	[56-40-6]	0,189 ± 0,005	mg/g		
	Histidine		0,390 ± 0,011	mg/g		
	Isoleucine		0,320 ± 0,015	mg/g		
	Leucine		0,319 ± 0,014	mg/g		
	Lysine		0,353 ± 0,024	mg/g		
	Methionine	[63-68-3]	0,373 ± 0,011	mg/g		
	Phenylalanine	[63-91-2]	0,421 ± 0,014	mg/g		
	Proline		0,282 ± 0,013	mg/g		
	Serine		0,256 ± 0,012	mg/g		
	Threonine		0,296 ± 0,009	mg/g		
	Tyrosine	[60-18-4]	0,459 ± 0,014	mg/g		
	Valine		0,293 ± 0,012	mg/g		
	Alanine	[302-72-7]	2,50 ± 0,07	mmol/L		
	Arginine		2,51 ± 0,07	mmol/L		
	Aspartic acid	[56-84-8]	2,50 ± 0,08	mmol/L		
	L-Cystine	[56-89-3]	1,23 ± 0,06	mmol/L		
	Glutamic acid		2,50 ± 0,08	mmol/L		
	Glycine	[56-40-6]	2,52 ± 0,07	mmol/L		
	Histidine		2,52 ± 0,07	mmol/L		
	Isoleucine		2,44 ± 0,11	mmol/L		
	Leucine		2,44 ± 0,11	mmol/L		
	Lysine		2,41 ± 0,17	mmol/L		

Methionine	[63-68-3]	2,51 ± 0,07	mmol/L
Phenylalanine	[63-91-2]	2,55 ± 0,09	mmol/L
Proline		2,46 ± 0,11	mmol/L
Serine		2,44 ± 0,11	mmol/L
Threonine		2,49 ± 0,07	mmol/L
Tyrosine	[60-18-4]	2,54 ± 0,08	mmol/L
Valine		2,51 ± 0,10	mmol/L