



# Specification

1.00468.0100 L(+)-Ascorbic Acid for analysis EMSURE® ACS, Reag. Ph Eur

Specification		
Assay (iodometric)	99.0 - 100.5	%
Identity (IR-spectrum)	conforms	
Appearance	white or almost white, crystalline powder	
Appearance of solution (50 g/l CO <sub>2</sub> -free water)	clear ( $\leq 3$ NTU) and not so intense in colour than reference solution BY <sub>7</sub>	
pH (50 g/l CO <sub>2</sub> -free water)	2.1 - 2.6	
Spec. rotation $[\alpha]_{20/D}$ (100 g/l, water)	+20.5 - +21.5	°
Chloride (Cl)	$\leq 50$	ppm
Sulfate (SO <sub>4</sub> )	$\leq 20$	ppm
Cu (Copper)	$\leq 5$	ppm
Fe (Iron)	$\leq 2$	ppm
Heavy metals (ACS)	$\leq 10$	ppm
Oxalic acid	$\leq 0.2$	%
Related substances (HPLC) (Impurity C)	$\leq 0.15$	%
Related substances (HPLC) (Impurity D)	$\leq 0.15$	%
Related substances (HPLC) (unspecified impurities singly)	$\leq 0.10$	%
Related substances (HPLC) (sum of impurities (except impurity C and D))	$\leq 0.2$	%
Sulfated ash (600 °C)	$\leq 0.05$	%
Loss on Drying (105 °C)	$\leq 0.1$	%

Dr. Sebastian Lips  
Responsible laboratory manager quality control

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