



Specification

1.06278.0000 Alizarin red S mono sodiumsalt (C.I. 58005) for analysis and indicator

Specification		
Identity (UV/VIS-Spectrum)	passes test	
1st transition range	pH 4.3 - pH 6.3 Lightly yellow - pink	
2nd transition range	pH 9.4 - pH 12.0 Brown orange - violet	
Absorption maximum λ 1 (buffer pH 4.3)	418 - 424	nm
Absorption maximum λ 2 (buffer pH 6.3)	510 - 517	nm
Absorption maximum λ 3 (buffer pH 9.4)	444 - 450	nm
Absorption maximum λ 4 (buffer pH 12.0)	554 - 558	nm
Spec. Absorptivity A 1%/1cm ($\lambda_{1_{max}}$; 0.01 g/l; buffer pH 4.3; calc. on dried substance)	135 - 180	
Spec. Absorptivity A 1%/1cm ($\lambda_{2_{max}}$; 0.01 g/l; buffer pH 6.3; calc. on dried substance)	145 - 210	
Spec. Absorptivity A 1%/1cm ($\lambda_{3_{max}}$; 0.01 g/l; buffer pH 9.4; calc. on dried substance)	170 - 230	
Spec. Absorptivity A 1%/1cm ($\lambda_{4_{max}}$; 0.01 g/l; buffer pH 12.0; calc. on dried substance)	340 - 520	
Loss on drying (110 °C)	≤ 10	%

Dr. Michael Memmel
Responsible laboratory manager quality control

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