



# Specification

1.07241.0000 Phenol red indicator ACS

## Specification

Identity (UV/VIS-Spectrum)	passes test
Clarity of solution (1 g/l; ethanol)	passes test
1st transition range	pH 1.2 - pH 3.0 brownish orange - yellow
2nd transition range	pH 6.5 - pH 8.0 brownish yellow - red violet
Absorption maximum $\lambda_{1 \text{ max.}}$ (buffer pH 1,2)	503 - 506 nm
Absorption maximum $\lambda_{2 \text{ max.}}$ (buffer pH 3,0)	430 - 435 nm
Absorption maximum $\lambda_{3 \text{ max.}}$ (buffer pH 6.5)	430 - 435 nm
Absorption maximum $\lambda_{4 \text{ max.}}$ (buffer pH 8,0)	557 - 560 nm
Spec. Absorptivity A 1%/1cm ( $\lambda_{1 \text{ max.}}$ ; 0.005 g/l; buffer pH 1,2; calc. on dried substances)	900 - 1150
Spec. Absorptivity A 1%/1cm ( $\lambda_{2 \text{ max.}}$ ; 0.005 g/l; buffer pH 3,0; calc. on dried substances)	550 - 650
Spec. Absorptivity A 1%/1cm ( $\lambda_{3 \text{ max.}}$ ; 0.005 g/l; buffer pH 6.5; calc. on dried substances)	550 - 650
Spec. Absorptivity A 1%/1cm ( $\lambda_{4 \text{ max.}}$ ; 0.005 g/l; buffer pH 8,0; calc. on dried substances)	1000 - 1250
Loss on drying (110 °C)	$\leq 1$ %
Transition range (according to ACS)	pH 6,8 - pH 8,2 yellow - red
Transition range (according to ACS)	passes test

Dr. Michael Memmel

Responsible laboratory manager quality control

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