

# Separation of organic acids

**Method:**  
HPLC

**Matrix**

**Application-No.:**  
124560

**Substances:** dihydroxymandelic acid; gallic acid; dihydroxyphenylacetic acid; 3,4-dihydroxybenzoic acid; syringic acid; vanillic acid; 3-hydroxybenzoic acid; 2,5-dihydroxybenzoic acid; 2,4-dihydroxybenzoic acid

**Column:** EC 150/3 NUCLEODUR® PolarTec, 5 µm

**Phase:** NUCLEODUR® PolarTec

**REF number:** 760488.30

**Sample:** each compound 1 mg/mL eluent

**Conditions:** Eluent A: acetonitrile with 0.1 % TFA  
Eluent B: water with 0.1 % TFA  
Gradient: 20-60 % A in 12 min  
Flow rate: 0.73 mL/min  
Temperature: 20 °C  
Injection volume: 5.0 µL

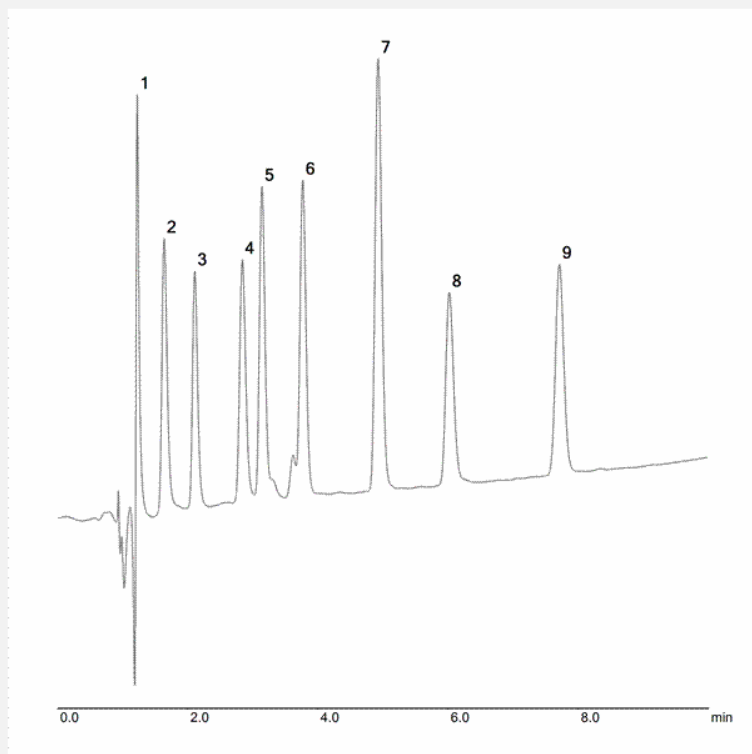
**Detection:** UV, 254 nm

**Author(-s):** HPLC department

**Source:** MACHEREY-NAGEL, Germany 2011

**Keywords:** organic acids

## Chromatogram:



## Legend:

- 1 - dihydroxymandelic acid
- 2 - gallic acid
- 3 - dihydroxyphenylacetic acid
- 4 - 3,4-dihydroxybenzoic acid
- 5 - syringic acid
- 6 - vanillic acid
- 7 - 3-hydroxybenzoic acid
- 8 - 2,5-dihydroxybenzoic acid
- 9 - 2,4-dihydroxybenzoic acid



MZ-Analysentechnik GmbH  
Barcelona-Allee 17 • D-55129 Mainz  
Tel +49 6131 880 96-0  
Fax +49 6131 880 96-20  
e-mail: info@mz-at.de  
www.mz-at.de