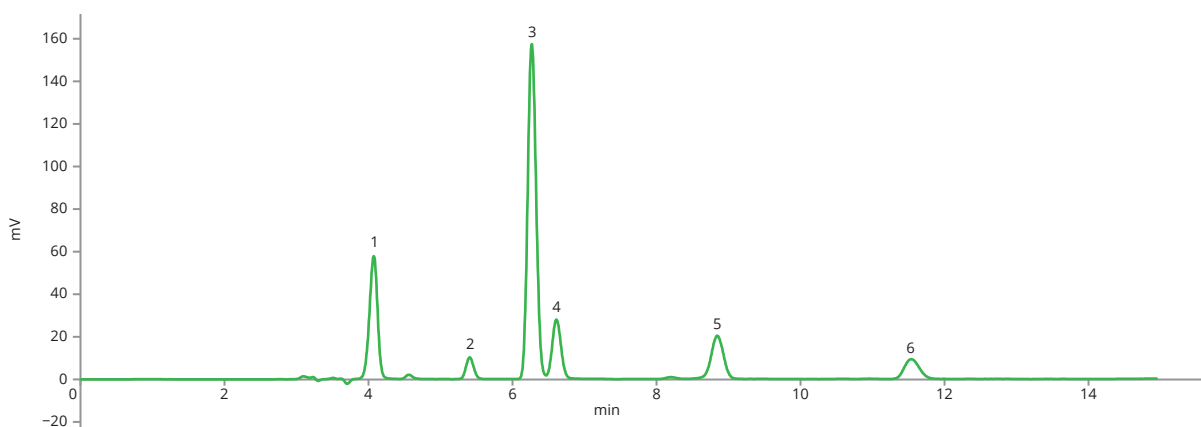




Organic acids

This application shows the determination of tartaric, malic, shikimic, lactic, citric and succinic acids. The quantity balance of these compounds influences on taste and flavor of wines and fruit juices. The ASTRA® column provides the simultaneous determination of organic acids with good peaks resolution at low limits of the concentrations.

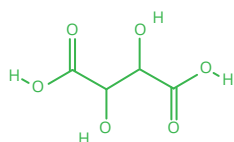
Substance	Tartaric acid, CAS number 87-69-4
Substance	Malic acid, CAS number 6915-15-7
Substance	Shikimic acid, CAS number 138-59-0
Substance	Lactic acid, CAS number 50-21-5
Substance	Citric acid, CAS number 77-92-9
Substance	Succinic acid, CAS number 110-15-6



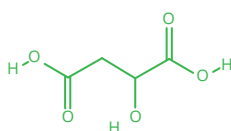
Test solution on ASTRA® column

Organic acids

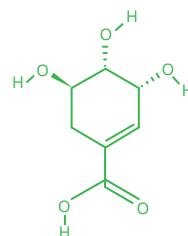
Column	ASTRA® C18-AQ, 3.0 µm
Dimensions	150 mm × 4.6 mm
Part number	AST-5832-IK46
Mobile phase	25mM KH ₂ PO ₄ (pH = 2.71) Isocratic elution
Flow rate	1.0 ml/min
Temperature	30 °C
Detection	DAD at 204 nm
Injection volume	10 µl
Analytes	1. Tartaric acid 2. Malic acid 3. Shikimic acid 4. Lactic acid 5. Citric acid 6. Succinic acid



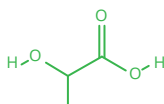
Tartaric acid



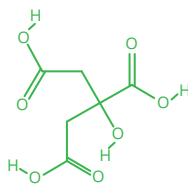
Malic acid



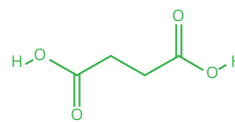
Shikimic acid



Lactic acid



Citric acid



Succinic acid