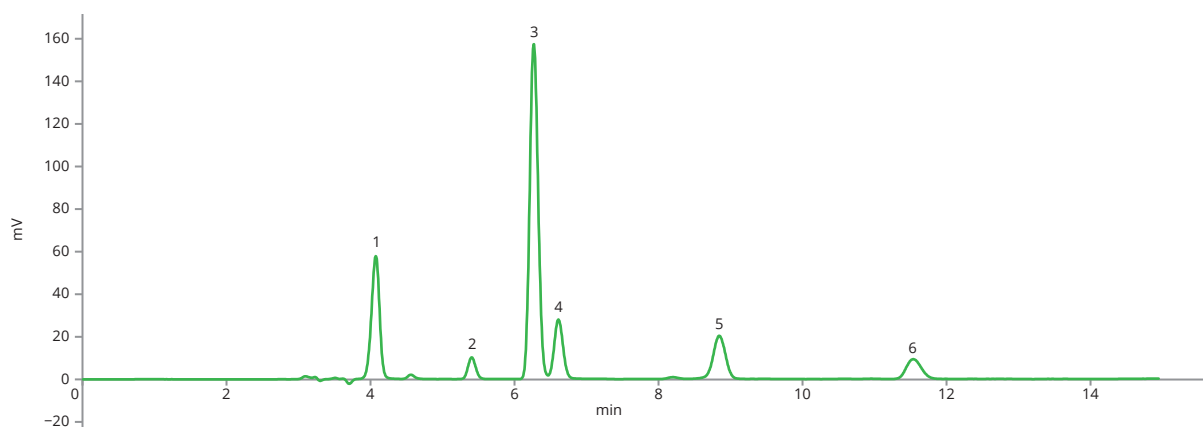




## Organic acids

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.

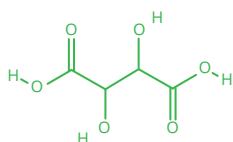
<b>Substance</b>	Tartaric acid, CAS number 87-69-4
<b>Substance</b>	Malic acid, CAS number 6915-15-7
<b>Substance</b>	Shikimic acid, CAS number 138-59-0
<b>Substance</b>	Lactic acid, CAS number 50-21-5
<b>Substance</b>	Citric acid, CAS number 77-92-9
<b>Substance</b>	Succinic acid, CAS number 110-15-6



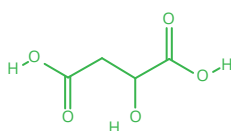
Test solution on ASTRA® column

## Organic acids

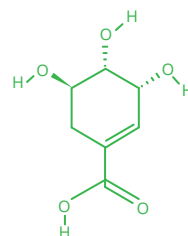
<b>Column</b>	ASTRA® C18-AQ, 3.0 µm
<b>Dimensions</b>	150 mm × 4.6 mm
<b>Part number</b>	AST-5832-IK46
<b>Mobile phase</b>	25mM KH <sub>2</sub> PO <sub>4</sub> (pH = 2.71) Isocratic elution
<b>Flow rate</b>	1.0 ml/min
<b>Temperature</b>	30 °C
<b>Detection</b>	DAD at 204 nm
<b>Injection volume</b>	10 µl
<b>Analytes</b>	<ol style="list-style-type: none"> <li><b>1. Tartaric acid</b></li> <li><b>2. Malic acid</b></li> <li><b>3. Shikimic acid</b></li> <li><b>4. Lactic acid</b></li> <li><b>5. Citric acid</b></li> <li><b>6. Succinic acid</b></li> </ol>



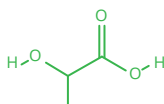
*Tartaric acid*



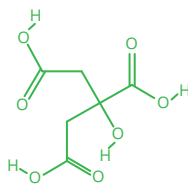
*Malic acid*



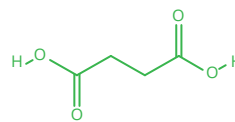
*Shikimic acid*



*Lactic acid*



*Citric acid*



*Succinic acid*