



# Agilent 1260 Infinity Analytical SFC System

## Features, Specifications and Ordering Details



### Easy-to-use SFC system for superior resolution in chiral separations

Super critical fluid chromatography (SFC) is a seamless extension of conventional HPLC, offering an alternative and attractive separation technology for superior resolution of chiral compounds and trace analytes in pharmaceutical samples. SFC has many advantages over conventional HPLC such as significantly reduced consumption of organic solvent and ultrafast separation at moderate operating pressures using conventional particle size columns. The 1260 Infinity Analytical SFC system provides you with a breakthrough, tenfold increase in sensitivity compared to existing SFC solutions. The system comprises a modified 1260 Infinity Binary LC coupled to an Aurora SFC Fusion A5 module for conversion of gaseous CO<sub>2</sub> to the supercritical state.

### Features

- Combined Aurora and Agilent solvent delivery system for delivery of CO<sub>2</sub> flow with same pulseless precision as for water and organic solvent
- Dynamic range greater than 10,000 for measurement of enantiometric excess and quantification of impurities that are 0.1 percent of the main peak
- Special high pressure SFC detector cell for superior sensitivity and low baseline noise
- Ten- to fifteen fold lower operating costs by using standard grade gaseous CO<sub>2</sub> instead of highly expensive SFC grade liquidified CO<sub>2</sub>
- High separation efficiency through low mobile phase viscosity and better diffusion characteristics
- Wide range of organic modifiers for expanded selectivity
- Fast, straightforward method development and rapid column equilibration
- Low solvent consumption and less waste generation for true green chemistry
- Flow rates up to 5 mL/min
- System delay volumes optimized for fast chromatography
- Agilent instrument and service quality
- Full control through Agilent ChemStation



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## Specifications – Agilent 1260 Infinity Analytical SFC system

Pumping System	
Flow range:	up to 5 mL/min
Composition range:	0–100%
SFC primary fluid:	CO <sub>2</sub>
Metering pump noise:	< 1%

Back Pressure Regulation	
Back pressure regulator range:	100–400 bar
Back pressure regulator noise:	< ± 0.5 bar

DAD	
Short-term noise (ASTM):*	< ±0.025 mAU at 254 nm typical
Wavelength range:	190–950 nm

## Ordering Details – Agilent 1260 Infinity Analytical SFC system

Description	Product Number
<b>Agilent 1260 Infinity Analytical SFC System with DAD</b> Includes Aurora A5 Fusion Module, Solvent Cabinet, Degasser, SFC Binary Pump, SFC Standard Autosampler, DAD Detector, Thermostatted Column Compartment, and SFC Accessory Kit including high pressure flow cell	G4309A
<b>Agilent 1260 Infinity Analytical SFC System with MWD</b> Includes Aurora A5 Fusion Module, Solvent Cabinet, Degasser, SFC Binary Pump, SFC Standard Autosampler, MWD Detector, Thermostatted Column Compartment, and SFC Accessory Kit including high pressure flow cell	G4309A#01

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