

Can your solvent take the pressure? New Fisher Chemical UHPLC Gradient Grade Solvents can!

- Acetonitrile
- Methanol
- Water



Fisher Chemical Solvents for UHPLC Gradient Grade Analysis

New Solvents

For over 40 years, we have been producing a full range of Fisher Chemical high purity solvents that set the standard for high sensitivity and provide accurate, reproducible, high resolution analytical separations.

We have raised the bar by introducing a unique range of UHPLC Gradient Grade Solvents.

Our solvents have an extraordinarily low solvent filtration of 0.1 μm , ensuring low baseline noise and reducing pump blockages. Perfect for those working at high pressure, where high sensitivity and a fast run rate are key to successful analysis.

In addition to a low filtration, our solvents display a remarkably high UV transmission rate making them the ideal solvent for UHPLC applications using UV detection.

SOLVENTS KEY FEATURES

- Outstanding high UV transmission
- Interference free, low baseline noise at 210 nm and 254 nm
- Low acidity & alkalinity level
- Lot-to-lot consistency
- Filtered to 0.1 μm

UHPLC System

The UHPLC (Ultra High Pressure Liquid Chromatography) pump has become an indispensable instrument to get shorter run times while maintaining chromatography integrity.

Thermo Scientific Liquid Chromatography systems offer UHPLC compatibility across all modules, ensuring maximum performance for all users and all laboratories. Our systems cover flows from 20 nL/min to 10 mL/min and operating pressures up to 1,250 bar.

We provide a wide range of pumping, sampling, and detection modules and a large suite of integrated features which increase application flexibility and efficiency. These systems improve the productivity of any laboratory, from routine industrial QA/QC to advanced drug discovery.

We recommend UHPLC Gradient Grade solvents for all UHPLC applications using UV detection.

UHPLC ADVANTAGES

- Faster results and method development
- Improved resolution
- Increased relative sensitivity

Combining our solvents with a UHPLC pump allows one to undertake different types of applications, a fast run rate at high pressure and increase the volume of a run at higher performance levels.



Accela 1250 System with Open Autosampler



UltiMate 3000 Rapid Separation System

Fisher Chemical Solvents

UHPLC Gradient Grade

Maximum sensitivity and resolution for high speed, high throughput applications

FISHER CHEMICAL SOLVENTS FOR UHPLC GRADIENT GRADE ANALYSIS			
CATALOG NUMBER	PRODUCT DESCRIPTION	PACK SIZE	PACKAGING
A/0650/PB15	Acetonitrile, for UHPLC gradient grade analysis	1 L	Plastic coated glass bottle
A/0650/PB17	Acetonitrile, for UHPLC gradient grade analysis	2.5 L	Plastic coated glass bottle
M/4070/PB15	Methanol, for UHPLC gradient grade analysis	1 L	Plastic coated glass bottle
M/4070/PB17	Methanol, for UHPLC gradient grade analysis	2.5 L	Plastic coated glass bottle
W/0120/PB15	Water, for UHPLC gradient grade analysis	1 L	Plastic coated glass bottle
W/0120/PB17	Water, for UHPLC gradient grade analysis	2.5 L	Plastic coated glass bottle

PRODUCT SPECIFICATION

A/0650 ACETONITRILE FOR UHPLC GRADIENT GRADE	
Assay (GC)	>99.9%
Acidity	<0.0002 meq/g
Alkalinity	<0.0002 meq/g
Water	<0.01 %
Residue after evaporation	<1 ppm
Gradient analysis (max.eluted peak) 210 nm	<2 mAU
Gradient analysis (max.eluted peak) 220 nm	<0.1 mAU
Gradient drift at 220 nm	<8 mAU
Absorbance at 195 nm	<0.1 A.U
Absorbance at 200 nm	<0.05 A.U
Absorbance at 210 nm	<0.02 A.U
Absorbance at 220 nm	<0.01 A.U
Absorbance at 230 nm	<0.005 A.U
Absorbance at 240 nm	<0.005 A.U
Absorbance at 250 nm	<0.005 A.U
Filtered to	0.1 µm

M/4070 METHANOL FOR UHPLC GRADIENT GRADE	
Assay (GC)	>99.9%
Acidity	<0.0002 meq/g
Alkalinity	<0.0001 meq/g
Water	<0.02 %
Residue after evaporation	<1 ppm
Gradient analysis (max.eluted peak) 254 nm	<0.1 mAU
Absorbance of the largest eluted peak at 220nm	<0.1 mAU
Gradient drift at 220 nm	<150 mAU
Absorbance at 210 nm	<0.2 A.U
Absorbance at 220 nm	<0.1 A.U
Absorbance at 230 nm	<0.05 A.U
Absorbance at 240 nm	<0.01 A.U
Absorbance at 250 nm	<0.005 A.U
Absorbance at 260 nm	<0.005 A.U
Filtered to	0.1 µm

W/0120 WATER FOR UHPLC GRADIENT GRADE	
Conductivity	<1 µ siemens
Residue after evaporation	<1 ppm
Gradient analysis (max.eluted peak) 220 nm	<0.1 mAU
Gradient analysis (max.eluted peak) 254 nm	<0.1 mAU
Absorbance at 210 nm	<0.2 A.U
Absorbance at 220 nm	<0.1 A.U
Absorbance at 230 nm	<0.05 A.U
Absorbance at 240 nm	<0.01 A.U
Absorbance at 250 nm	<0.005 A.U
Absorbance at 260 nm	<0.005 A.U
Filtered to	0.1 µm



Fisher Chemical Solvents Selection Guide

PRODUCT DESCRIPTION	SIZE	HPLC GRADE	HPLC GRADIENT GRADE	ADVANCED HPLC GRADE	UHPLC GRADIENT GRADE	LC-MS	OPTIMA LC-MS
ACETONITRILE	500 ml	-	-	-	-	-	A955-500
	1 L	A/0626/15	A/0627/15	-	-	A/0638/15	A955-1
	1 L safety bottle	-	-	A/0632/PB15	A/0650/PB15	-	-
	2.5 L	A/0626/17	A/0627/17	-	-	A/0638/17	A955-212
	2.5 L safety bottle	A/0626/PB17	A/0627/PB17	A/0632/PB17	A/0650/PB17	-	-
	4 L	-	-	-	-	-	A955-4
	5 L	A/0626/21	A/0627/21	-	-	-	-
METHANOL	500 ml	-	-	-	-	-	A456-500
	1 L	M/4056/15	M/4058/15	-	-	M/4062/15	A456-1
	1 L safety bottle	-	-	M/4060/PB15	M/4070/PB15	-	-
	2.5 L	M/4056/17	M/4058/17	-	-	M/4062/17	A456-212
	2.5 L safety bottle	M/4056/PB17	M/4058/PB17	M/4060/PB17	M/4070/PB17	-	-
	4 L	-	-	-	-	-	A456-4
	5 L	-	M/4058/21	-	-	-	-
WATER	500 ml	-	-	-	-	-	W6-500
	1 L	W/0106/15	W/0106/15	-	-	W/0112/15	W6-1
	1 L safety bottle	-	-	W/0110/PB15	W/0120/PB15	-	-
	2.5 L	W/0106/17	W/0106/17	-	-	W/0112/17	W6-212
	2.5 L safety bottle	W/0106/PB17	W/0106/PB17	W/0110/PB17	W/0120/PB17	-	-
	4 L	-	-	-	-	-	W6-4
	5 L	-	-	-	-	-	-
ISOPROPANOL (IPA)	500 ml	-	-	-	-	-	A461-500
	1 L	P/7507/15	-	-	-	-	A461-1
	1 L safety bottle	-	-	-	-	-	-
	2.5 L	P/7507/17	P/7508/17	-	-	-	A461-212
	2.5 L safety bottle	P/7507/PB17	-	-	-	-	-
	4 L	-	-	-	-	-	A461-4
	5 L	-	-	-	-	-	-
Filtered to	0.2 µm	0.2 µm	0.2 µm	0.2 µm	0.1 µm	0.2 µm	0.2 µm

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