

# Technical Specification

**PRODUCT : ACETONITRILE RS - For UHPLC-MS**

**CODE : 412040**

**MOLECULAR WEIGHT :41.05**

**CAS N° : 75-05-8**

**FORMULA : CH<sub>3</sub>CN**

TEST	U.M.	SPECIFICATION
Description	-	Clear colourless liquid
Colour	APHA	<= 5
Identification (I.R.)	-	Positive
Refractive index at 20°C	-	1.342 - 1.346
Residue on evaporation	ppm	<= 1
Acidity	meq/g	<= 0.0003
Alcalinity	meq/g	<= 0.0002
Assay (GC)	%	>= 99.99
Water (K.F.)	ppm	<= 100
UV Transmittance	-	-
at 191 nm	%	>= 40
at 195 nm	%	>= 80
at 200 nm	%	>= 95
at 215 nm	%	>= 97
from 230 nm	%	>= 99
UV Absorbance	-	-
at 191 nm	AU	<= 0.4
at 200 nm	AU	<= 0.03
at 220 nm	AU	<= 0.01
at 254 nm	AU	<= 0.005
Fluorescence (quinine)	-	-
at 254 nm	ppb	<= 1
at 365 nm	ppb	<= 0.5
at 450 nm	ppb	<= 0.5
UHPLC gradient peak	-	-
at 210 nm	mAU	<= 0.4
at 254 nm	mAU	<= 0.2
Gradient baseline drift at 210 nm	mAU	<= 6
Gradient baseline drift at 254 nm	mAU	<= 2
Test LC-MS TIC (50-2000m/z) ESI (+)	-	-
Sensitive Impurities (reserpine)	ppb	<= 30
Metals compounds	-	-
Al	ppb	<= 20
Fe	ppb	<= 20
Na	ppb	<= 50
Ca	ppb	<= 50
Mg	ppb	<= 20
K	ppb	<= 50

UV cut off 190 nm

Metals compounds : mesured at batch release

Filtered through a 0.1 µm membrane.

It is under the customer responsibility to make sure the purchased product is suitable for his use and/or application.  
 CARLO ERBA Reagents would not be guilty of any misuse or mishandling of any of its products, occurring potential damages or user hurts in case of in