

PRODUCT IDENTITY

PRODUCT NAME	Methanol	PRODUCT NUMBER	M116125
Grades & Purity	UltraPureChrom™, for LC-MS, ≥99.9%	VERSION	3
CAS NUMBER	67-56-1	FORMULA	CH ₃ OH
FORMULA WEIGHT	32.04g/mol		

ACCEPTANCE CRITERIA

PARAMETER	SPECIFICATION / LIMIT
Lead(Pb)	0-0.02 (ppm)
Fluorescence (quinine) at 254 nm	0-1 (ppb)
HPLC Absorbance 254 nm	0-5 (mAU)
Cobalt (Co)	0-0.02 (ppm)
Silver(Ag)	0-0.1 (ppm)
Tin(Sn)	0-0.1 (ppm)
Cadmium(Cd)	0-0.05 (ppm)
Free Acid (as Formic Acid)	0-0.001 (%)
Copper(Cu)	0-0.01 (ppm)
Alkalinity (as NH ₃)	0-0.0005 (%)

PARAMETER	SPECIFICATION / LIMIT
Manganese(Mn)	0-0.01 (ppm)
Nickel(Ni)	0-0.02 (ppm)
Purity(GC)	99.9-100 (%)
Fluorescence (quinine) at 365 nm	0-0.5 (ppb)
Zinc(Zn)	0-0.1 (ppm)
Water by Karl Fischer	0-0.01 (%)
Chromium(Cr)	0-0.02 (ppm)
Barium(Ba)	0-0.1 (ppm)
Appearance (M116125)	Colorless Liquid
Test for suitability for LC-MS	Passes
Acidity	≤ 0.0002 (eq/kg)
Alkalinity Content	≤ 0.0002 (eq/kg)
Aluminum(Al)	0-500 (ppb)
Calcium (Ca)	≤ 10 (ppb)
Iron(Fe)	0-10 (ppb)
Potassium(K)	0-100 (ppb)
Magnesium (Mg)	0-10 (ppb)

PARAMETER	SPECIFICATION / LIMIT
Sodium(Na)	0-100 (ppb)
Any further metal (ICP-MS)	0-5 (ppb)
Transmission (at 210 nm)	≥ 35 %
Transmission (at 220 nm)	≥ 60 %
Transmission (at 230 nm)	≥ 75 %
Transmission (from 260 nm)	≥ 98 %
Suitable for LC-MS; Intensity of background mass peak based on reserpine (APCI/ESI positive)	≤ 2 ppb
Suitable for LC-MS; Intensity of background mass peak based on reserpine (APCI/ESI negative)	≤ 20 ppb
Identity by IR	Conforms to Structure
Evaporation Residue	0-1 (mg/L)
Gradient grade (at 235 nm)	0-1 (mAU)
Gradient grade (at 220 nm)	≤ 2.0 mAU