

Material	28676.297
Material description	Toluene
Grade	AnalaR NORMAPUR Reag. Ph.Eur., ACS
CAS Number	108-88-3
Molecular formula	C ₆ H ₅ CH ₃
Molecular mass	92.14

Characteristics	Specifications
Assay (on anhydrous substance)	≥ 99.9 %
Appearance	Clear colourless liquid
Carbonisable substances	Passes test
IR Spectrum	Passes test
Substances coloured by H ₂ SO ₄	Passes test ACS/ISO
Acidity or alkalinity	≤ 0.0001 meq/g
Boiling point	109 - 112 °C
Colouration	≤ 10 APHA
Density (20/4)	0.865 - 0.868
Density (20/20)	0.865 - 0.870
Refractive index (20°C)	1.496 - 1.498
Benzene	≤ 50 ppm
Evaporation residue	≤ 10 ppm
Thiophene	≤ 1 ppm
Total S (as SO ₄)	≤ 10 ppm
Water	≤ 0.03 %
Al (Aluminium)	≤ 0.05 ppm
B (Boron)	≤ 0.02 ppm
Ba (Barium)	≤ 0.02 ppm
Ca (Calcium)	≤ 0.2 ppm
Cd (Cadmium)	≤ 0.01 ppm
Co (Cobalt)	≤ 0.01 ppm
Cr (Chromium)	≤ 0.01 ppm
Cu (Copper)	≤ 0.01 ppm
Fe (Iron)	≤ 0.1 ppm
K (Potassium)	≤ 0.1 ppm
Mg (Magnesium)	≤ 0.05 ppm
Mn (Manganese)	≤ 0.01 ppm

>>> Continued on page 2 >>>

For Professional use in Laboratory or Manufacturing. Not for use as an Active Pharmaceutical Ingredient or Food or Animal Feed. Suitability and intended use of the product remains the responsibility of the user.



Characteristics	Specifications
Na (Sodium)	≤ 0.5 ppm
Ni (Nickel)	≤ 0.01 ppm
Pb (Lead)	≤ 0.01 ppm
Sn (Tin)	≤ 0.05 ppm
Sr (Strontium)	≤ 0.02 ppm
Zn (Zinc)	≤ 0.01 ppm
Conforms to ACS	Passes test
Conforms to Reag. Ph.Eur.	Passes test

Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

Isabelle Habay, Head of Laboratory - Briare
VWR International S.A.S.; Z.I. de Vaugereau; FR-45250
Briare; France