

Material	20104.298
Material description	Acetic acid glacial
Grade	AnalaR NORMAPUR ACS, Reag. Ph. Eur.
CAS Number	64-19-7
Molecular formula	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>
Molecular mass	60.05

Characteristics	Specifications
Assay	99.8 --> 100.5 %
Appearance	Passes test Ph.Eur.
Dilution test	Passes test ACS
IR Spectrum	Passes test
Substances reducing dichromate	Passes test ACS
Substances reducing KMnO <sub>4</sub>	Passes test
Alkalinity	Max. 0.0004 meq/g
Boiling point	117 --> 119 °C
Colouration	Max. 10 APHA
Solidification point	16.2 --> 16.6 °C
Substances coloured by H <sub>2</sub> SO <sub>4</sub>	Max. 150 APHA
Acetaldehyde	Max. 2 ppm
Acetic anhydride	Max. 100 ppm
Evaporation residue	Max. 5 ppm
Formate	Max. 0.05 %
Heavy metals (as Pb)	Max. 0.5 ppm
Ignition residue (SO <sub>4</sub> )	Max. 10 ppm
Water	Max. 0.25 %
Cl (Chloride)	Max. 0.5 ppm
NO <sub>3</sub> (Nitrate)	Max. 2 ppm
PO <sub>4</sub> (Phosphate)	Max. 0.5 ppm
SO <sub>4</sub> (Sulphate)	Max. 1 ppm
Ag (Silver)	Max. 0.5 ppm
Al (Aluminium)	Max. 0.03 ppm
As (Arsenic)	Max. 0.01 ppm
Ba (Barium)	Max. 0.01 ppm
Be (Beryllium)	Max. 0.01 ppm
Bi (Bismuth)	Max. 0.02 ppm

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Characteristics	Specifications
Ca (Calcium)	Max. 0.2 ppm
Cd (Cadmium)	Max. 0.02 ppm
Co (Cobalt)	Max. 0.01 ppm
Cr (Chromium)	Max. 0.08 ppm
Cu (Copper)	Max. 0.01 ppm
Fe (Iron)	Max. 0.2 ppm
Ge (Germanium)	Max. 0.02 ppm
K (Potassium)	Max. 0.1 ppm
Li (Lithium)	Max. 0.5 ppm
Mg (Magnesium)	Max. 0.05 ppm
Mn (Manganese)	Max. 0.01 ppm
Mo (Molybdenum)	Max. 0.02 ppm
Na (Sodium)	Max. 1 ppm
Ni (Nickel)	Max. 0.1 ppm
Pb (Lead)	Max. 0.02 ppm
Sr (Strontium)	Max. 0.01 ppm
Ti (Titanium)	Max. 0.02 ppm
Tl (Thallium)	Max. 0.02 ppm
V (Vanadium)	Max. 0.01 ppm
Zn (Zinc)	Max. 0.05 ppm
Zr (Zirconium)	Max. 0.02 ppm
Conforms to ACS	Passes test
Conforms to Reag. Ph.Eur.	Passes test

Signature
<p>We certify that this batch conforms to the specifications listed above.</p> <p>This document has been produced electronically and is valid without a signature.</p> <p>Isabelle Habay, Head of Laboratory - Briare VWR International S.A.S.; Z.I. de Vaugereau; FR-45250 Briare; France</p>