



Certificate of Analysis

1.08325.2500 Toluene for analysis EMSURE® ACS,ISO,Reag. Ph Eur
Batch K52609825

| | Spec. Values | | Batch Values | |
|---------------------------------|---------------|-------|---------------|-------|
| Purity (GC) | ≥ 99.9 | % | 99.9 | % |
| Identity (IR) | conforms | | conforms | |
| Appearance | clear | | clear | |
| Color | ≤ 10 | Hazen | < 5 | Hazen |
| Acidity | ≤ 0.0002 | meq/g | ≤ 0.0002 | meq/g |
| Alkalinity | ≤ 0.0006 | meq/g | < 0.0006 | meq/g |
| Density (d 20 °C/20 °C) | 0.865 - 0.870 | | 0.865 - 0.870 | |
| Boiling point | 109 - 111 | °C | 110 | °C |
| Chloride (Cl) | ≤ 0.5 | ppm | ≤ 0.5 | ppm |
| Sulfate (SO ₄) | ≤ 1 | ppm | ≤ 1 | ppm |
| Thiophene | ≤ 0.0001 | % | ≤ 0.0001 | % |
| Sulfur compounds (as S) | ≤ 0.003 | % | ≤ 0.003 | % |
| Benzene (GC) | ≤ 0.005 | % | < 0.005 | % |
| Readily carbonizable substances | conforms | | conforms | |
| Ag (Silver) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Al (Aluminium) | ≤ 0.00005 | % | ≤ 0.00005 | % |
| As (Arsenic) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Au (Gold) | ≤ 0.00001 | % | ≤ 0.00001 | % |
| B (Boron) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Ba (Barium) | ≤ 0.00001 | % | ≤ 0.00001 | % |
| Be (Beryllium) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Bi (Bismuth) | ≤ 0.00001 | % | ≤ 0.00001 | % |
| Ca (Calcium) | ≤ 0.00005 | % | ≤ 0.00005 | % |
| Cd (Cadmium) | ≤ 0.000005 | % | ≤ 0.000005 | % |
| Co (Cobalt) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Cr (Chromium) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Cu (Copper) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Fe (Iron) | ≤ 0.00001 | % | ≤ 0.00001 | % |
| Ga (Gallium) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| In (Indium) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Li (Lithium) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Mg (Magnesium) | ≤ 0.00001 | % | ≤ 0.00001 | % |
| Mn (Manganese) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Mo (Molybdenum) | ≤ 0.000005 | % | ≤ 0.000005 | % |
| Ni (Nickel) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Pb (Lead) | ≤ 0.00001 | % | ≤ 0.00001 | % |
| Pt (Platinum) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Sb (Antimony) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Sn (Tin) | ≤ 0.00001 | % | ≤ 0.00001 | % |
| Ti (Titanium) | ≤ 0.000005 | % | ≤ 0.000005 | % |
| Tl (Thallium) | ≤ 0.000005 | % | ≤ 0.000005 | % |

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| | | | | |
|---------------------|------------|---|------------|---|
| V (Vanadium) | ≤ 0.000005 | % | ≤ 0.000005 | % |
| Zn (Zinc) | ≤ 0.00001 | % | ≤ 0.00001 | % |
| Zr (Zirconium) | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Evaporation residue | ≤ 0.0005 | % | ≤ 0.0005 | % |
| Water | ≤ 0.03 | % | 0.01 | % |

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Responsible laboratory manager quality control

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