

Product Name: Xylenes, Semiconductor Grade, Thermo Scientific Chemicals
Catalog Number: 019402.K2

CAS Number: 1330-20-7
IUPAC Name: 1,3-xylene
Molecular Formula: C₈H₁₀
Molecular Weight: 106.17
InChI Key: IVSZLXZYQVIEFR-UHFFFAOYSA-N
SMILES: CC1=CC(C)=CC=C1
Synonym: M-xylene m-xylool ccris 907

Product Specification

Appearance (Color): Clear colorless
Form: Liquid
Color (APHA): ≤10
Assay (GC): ≥99% (sum of isomers + ethylbenzene + Toluene)
Trace Metal: Potassium, K: ≤0.1ppm (≤100ppb)
Trace Metal: Sodium, Na: ≤0.1ppm (≤100ppb)
Trace Metal: Tin, Sn: ≤0.1ppm (≤100ppb)
Impurity content: Boron, B: ≤0.1ppm (≤100ppb)
Water Content (Karl Fischer Titration): ≤0.02%
Trace Metal: Aluminum, Al: ≤0.1ppm (≤100ppb)
Trace Metal: Arsenic, As, and Antimony, Sb (as Arsenic); ≤0.01ppm (≤10ppb)
Trace Metal: Calcium, Ca: ≤0.1ppm (≤100ppb)
Trace Metal: Copper, Cu: ≤0.1ppm (≤100ppb)
Trace Metal: Iron, Fe: ≤0.1ppm (≤100ppb)
Trace Metal: Lead, Pb: ≤0.1ppm (≤100ppb)
Trace Metal: Magnesium, Mg: ≤0.1ppm (≤100ppb)
Trace Metal: Manganese, Mn: ≤0.1ppm (≤100ppb)
Trace Metal: Nickel, Ni: ≤0.1ppm (≤100ppb)
Trace Metal: Zinc, Zn: ≤0.1ppm (≤100ppb)
Chloride content: ≤3ppm

Free acid (titration): $\leq 0.0003 \text{ meq/g}$ ($\leq 0.3 \mu \text{eq/g}$)
Residue on Evaporation: $\leq 5 \text{ ppm}$
Impurity content: Phosphate, PO₄: $\leq 1 \text{ ppm}$

Date Of Print: 05/11/2024

Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.