

Specification Sheet

SIGMA-ALDRICH

Product Name	Benzene, ACS spectrophotometric grade, $\geq 99\%$
Product Number	154628
Product Brand	SIAL
CAS Number	71-43-2
Molecular Weight	78.11

TEST

Appearance (Color)	Colorless
Appearance (Form)	Liquid
Infrared spectrum	Conforms to Structure
UV Absorbance 400nm	≤ 0.01
UV Absorbance 380nm	≤ 0.01
UV Absorbance 350nm	≤ 0.02
UV Absorbance 330nm	≤ 0.04
UV Absorbance 300nm	≤ 0.10
UV Absorbance 290nm	≤ 0.30
UV Absorbance 280nm	≤ 1.00
Purity (GC)	$\geq 99.0\%$
Water (by Karl Fischer)	$\leq 0.05\%$
Residue on Evaporation	$\leq 0.001\%$
Color Test	≤ 10 APHA
Substances Darkened (by H₂SO₄)	Pass
Sulfur compounds	$\leq 0.005\%$ as S
Thiophene	Pass
Meets ACS Requirements	Current ACS Specification 10th Edition

SPECIFICATION