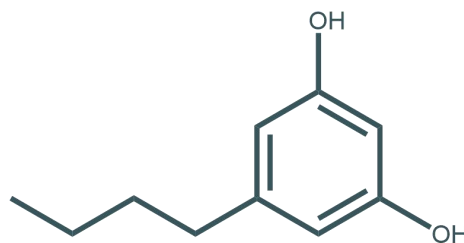


Certificate of Analysis

5-Butylbenzene-1,3-diol

Product No.: BA72
Lot No.: BA72-20241116
Description of CRM: 5-Butylbenzene-1,3-diol
Chemical formula: C₁₀H₁₄O₂
CAS No.: 46113-76-2
Mfg. Date: Nov,16, 2024
Retest Date: November 2025
Storage: Store unopened in cold (2 °C to -8 °C).

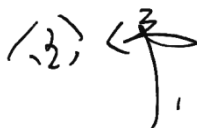


Quantity: 1.6Kg
Appearance: Light yellow solid
Packaging: Plastic bottle
Details on starting Each raw material utilized has been identified and thoroughly characterized through.
Materials: The use of multiple analytical techniques and is assigned a Mass Balance Purity Factor. Spectral data is provided on subsequent pages of this COA.
Certificate of Origin: Blazer Corporation certifies no material of animal origin (BSE/TSE) was used in the preparation of this product .
Country of Origin: China

Quality Assurance Manager

Nov 16,2024

Issue Date



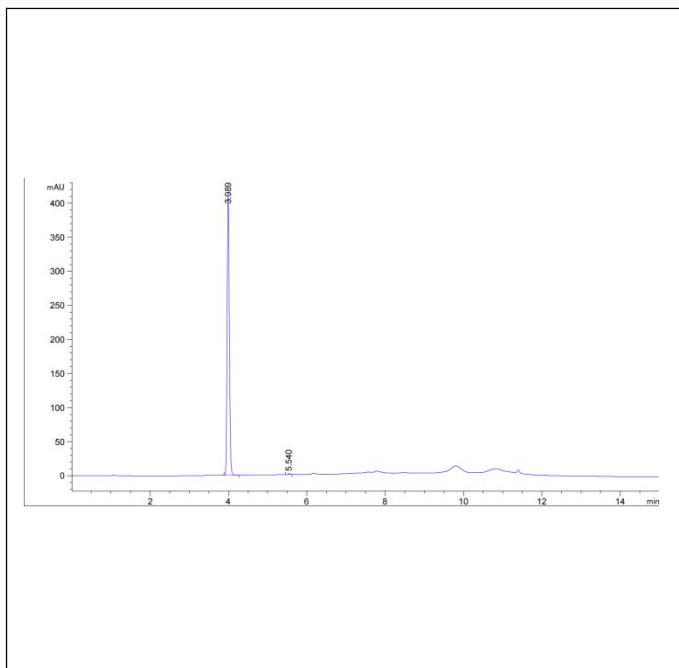
Analyte Certification - Mass Balance Purity Factor

Each analyte is thoroughly identified and characterized using an orthogonal approach. A mass balance purity factor is assigned incorporating chromatographic purity and residual impurities. The mass balance purity factor is utilized to calculate the weighing adjustment necessary to ensure accuracy of the solution standard concentration.

Material Name:	5-Butylbenzene-1,3-diol	Chemical Formula:	C ₁₀ H ₁₄ O ₂
		CAS Number:	46113-76-2
Material Lot:	BA72-20241116	Molecular Weight:	166.22
Material Characterization Summary			
Analytical Test		Stanard	Results
Chromatographic Purity by HPLC/UV Analysis		≥98%	99.69%
Identity by LC/MS Analysis		Consistent with Structure	Consistent with Structure
Identity by ¹ H-NMR Analysis		Consistent with Structure	Consistent with Structure
Residual Water Analysis by Karl Fischer Coulometry		1%	0.1%
Mass Balance Purity Factor			99.69%
• The chromatographic purity is calculated as the average of two independently performed analyses utilizing two different methods. Acceptance criteria requires the purity values to be within 0.5% of each other. • The chromatographic purity value is used to calculate the Mass Balance Purity Factor. • Mass Balance Purity Factor = [(100 - wt% residual solvent - wt% residual water - wt% residual inorganics)xChromatographic Purity/100]. • Mass Balance Purity Factor does not include adjustment for chiral and/or isotopic purity.			

Spectral and Physical Data

HPLC/UV



Column: Ascentis Express C18, 2.7 μ m, 3.0 x 100 mm

Mobile Phase: A: Acetonitrile
B: 0.1% Phosphoric acid in Water

Gradient:

Time (min)	% A	% B
0.0	40	60
5.0	70	30
10.0	90	10
15.0	90	10
25.0	95	5
25.1	40	60
27.0	40	60

Flow Rate: 0.8 mL/min

Wavelength: 220 nm

Sample Name BA72-20241116

Acquired: Nov.16, 2024

Peak #	Ret Time	Area %
1	3.989	99.6913
2	5.540	0.3087

¹H NMR

Instrument: JEOL ECZ400S
Solvent: Choloform- D

