

## Certificate of Analysis

Date of Testing: 2023-03-20 03:28:17  
Date of Next Testing: 2025-03-19 03:28:17  
Product Name: **3'-Bromo-5'-chloro-2'-hydroxyacetophenone**  
CAS Number: 59443-15-1  
Specifications & Purity:  $\geq 97.0\%$ (GC)  
Lot #: C23151105  
SKU #: **B136413**  
Analysis: **041750**

Parameter	Limit Values	Result
Purity(GC)	97-100 (%)	97.05 %
Purity(Neutralization titration)	97-103 (%)	99.00 %
Melting point	98-102 (°C)	98.11000 °C
Appearance (B136413)	White to Tan Powder or Crystals	White to Tan Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in hot MeOH , very faint turbidity	pass	Pass



John Su  
QA & QC Manager