

---

## Quality Assurance Standard Specifications Sheet

Product Name: 1-Butanethiol  
Product Code: NA3478  
Contents: Natural Flavor  
Legal Status: FEMA GRAS# 3478  
FL No. 12.010  
Natural (EC) 1334/2008 Article 3(2)(c)  
Natural US 21 CFR 101.22  
CAS: 109-79-5  
Hno: 2930.90.9251  
Storage Conditions: Cool dark area, <70 F. Purge with Nitrogen after each opening.  
Shelf Life: 12 months  
Appearance: Clear  
Liquid  
Color: Colorless to Light Yellow  
Flavor/Odor: Sauteed onion and poultry meat at 1 ppm / Sauteed onion  
Specific Gravity, 20°C: 0.833 - 0.851  
Refractive Index, 20°C: 1.441 - 1.445  
GC Purity: 98%  
Flash Point °C (°F): -1 (30.2)  
Boiling Point °C (°F): 98 (208.4)  
Flavor Use: Meat, meat sauces, soups, condiment, pickles, seasonings  
Use Level: 0.0005 - 0.2 ppm as consumed  
Solubility: Slightly Soluble in Oils and Alcohol