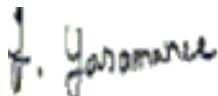


Certificate of Analysis

Product Name : Sodium 5,5-diethylbarbiturate
Product Number : B0500-100G
Batch Number : 0000443602
Source Batch : 0000388435
CAS Number : 144-02-5
MDL Number : MFCD00036203
Molecular Formula : $C_8H_{11}N_2NaO_3$
Formula Weight : 206.17 g/mol
Recommended Retest Date : Dec 2029
Quality Release Date : 10 Dec 2024

| Test | Specification | Result |
|------------------------------|-----------------------|-----------|
| Appearance (Color) | White | White |
| Appearance (Form) | Powder | Powder |
| Solubility (Color) | Colorless | Colorless |
| Solubility (Turbidity) | Clear | Clear |
| 50 mg/ml H ₂ O | | |
| Sodium (Na) | 10.0 - 12.0 % | 11.7 % |
| ¹ H NMR Spectrum | Conforms to Structure | Conforms |
| ¹³ C NMR Spectrum | Conforms to Structure | Conforms |
| Purity (HPLC) | ≥ 98 % | 100 % |



Jagodige Yasomanee, Supervisor

Quality Assurance

St. Louis, Dekalb

US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale

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