

United States Acetoacetanilide Market Report 2018

https://marketpublishers.com/r/U584254F09AEN.html Date: January 2018 Pages: 97 Price: US\$ 3,800.00 (Single User License) ID: U584254F09AEN

Abstracts

In this report, the United States Acetoacetanilide market is valued at USD XX million in 2017 and is expected to reach USD XX million by the end of 2025, growing at a CAGR of XX% between 2017 and 2025.

Geographically, this report splits the United States market into seven regions:

The West Southwest The Middle Atlantic New England The South The Midwest

with sales (volume), revenue (value), market share and growth rate of Acetoacetanilide in these regions, from 2013 to 2025 (forecast).

United States Acetoacetanilide market competition by top manufacturers/players, with Acetoacetanilide sales volume, price, revenue (Million USD) and market share for each manufacturer/player; the top players including

Eastman Chemical



Mitsuboshi Chemical

Laxmi Organic Industries

Cangzhou Goldlion Chemicals

Nantong Acetic Acid Chemical

Jiangsu Changyu Chemical

Hangzhou Dayangchem

Jiangsu Tiancheng biochemical products

Shanghai Qidian Chemical

Jiaozhou Fine Chemical

On the basis of product, this report displays the production, revenue, price, market share and growth rate of each type, primarily split into

Dry Powder Wet Solid Others

On the basis on the end users/applications, this report focuses on the status and outlook for major applications/end users, sales volume, market share and growth rate for each application, including

Agricultural Chemicals

Coatings

Pigments



If you have any special requirements, please let us know and we will offer you the report as you want.



Contents

United States Acetoacetanilide Market Report 2018

1 ACETOACETANILIDE OVERVIEW

1.1 Product Overview and Scope of Acetoacetanilide

1.2 Classification of Acetoacetanilide by Product Category

1.2.1 United States Acetoacetanilide Market Size (Sales Volume) Comparison by Type (2013-2025)

1.2.2 United States Acetoacetanilide Market Size (Sales Volume) Market Share by Type (Product Category) in 2017

1.2.3 Dry Powder

1.2.4 Wet Solid

- 1.2.5 Others
- 1.3 United States Acetoacetanilide Market by Application/End Users

1.3.1 United States Acetoacetanilide Market Size (Consumption) and Market Share Comparison by Application (2013-2025)

- 1.3.2 Agricultural Chemicals
- 1.3.3 Coatings
- 1.3.4 Pigments

1.4 United States Acetoacetanilide Market by Region

1.4.1 United States Acetoacetanilide Market Size (Value) Comparison by Region (2013-2025)

- 1.4.2 The West Acetoacetanilide Status and Prospect (2013-2025)
- 1.4.3 Southwest Acetoacetanilide Status and Prospect (2013-2025)
- 1.4.4 The Middle Atlantic Acetoacetanilide Status and Prospect (2013-2025)
- 1.4.5 New England Acetoacetanilide Status and Prospect (2013-2025)
- 1.4.6 The South Acetoacetanilide Status and Prospect (2013-2025)
- 1.4.7 The Midwest Acetoacetanilide Status and Prospect (2013-2025)
- 1.5 United States Market Size (Value and Volume) of Acetoacetanilide (2013-2025)
- 1.5.1 United States Acetoacetanilide Sales and Growth Rate (2013-2025)
- 1.5.2 United States Acetoacetanilide Revenue and Growth Rate (2013-2025)

2 UNITED STATES ACETOACETANILIDE MARKET COMPETITION BY PLAYERS/SUPPLIERS

2.1 United States Acetoacetanilide Sales and Market Share of Key Players/Suppliers (2013-2018)



2.2 United States Acetoacetanilide Revenue and Share by Players/Suppliers (2013-2018)

2.3 United States Acetoacetanilide Average Price by Players/Suppliers (2013-2018)

2.4 United States Acetoacetanilide Market Competitive Situation and Trends

2.4.1 United States Acetoacetanilide Market Concentration Rate

2.4.2 United States Acetoacetanilide Market Share of Top 3 and Top 5 Players/Suppliers

2.4.3 Mergers & Acquisitions, Expansion in United States Market

2.5 United States Players/Suppliers Acetoacetanilide Manufacturing Base Distribution, Sales Area, Product Type

3 UNITED STATES ACETOACETANILIDE SALES (VOLUME) AND REVENUE (VALUE) BY REGION (2013-2018)

3.1 United States Acetoacetanilide Sales and Market Share by Region (2013-2018)

3.2 United States Acetoacetanilide Revenue and Market Share by Region (2013-2018)

3.3 United States Acetoacetanilide Price by Region (2013-2018)

4 UNITED STATES ACETOACETANILIDE SALES (VOLUME) AND REVENUE (VALUE) BY TYPE (PRODUCT CATEGORY) (2013-2018)

4.1 United States Acetoacetanilide Sales and Market Share by Type (Product Category) (2013-2018)

4.2 United States Acetoacetanilide Revenue and Market Share by Type (2013-2018)

4.3 United States Acetoacetanilide Price by Type (2013-2018)

4.4 United States Acetoacetanilide Sales Growth Rate by Type (2013-2018)

5 UNITED STATES ACETOACETANILIDE SALES (VOLUME) BY APPLICATION (2013-2018)

5.1 United States Acetoacetanilide Sales and Market Share by Application (2013-2018)

5.2 United States Acetoacetanilide Sales Growth Rate by Application (2013-2018)

5.3 Market Drivers and Opportunities

6 UNITED STATES ACETOACETANILIDE PLAYERS/SUPPLIERS PROFILES AND SALES DATA

6.1 Eastman Chemical

6.1.1 Company Basic Information, Manufacturing Base and Competitors



6.1.2 Acetoacetanilide Product Category, Application and Specification

- 6.1.2.1 Product A
- 6.1.2.2 Product B

6.1.3 Eastman Chemical Acetoacetanilide Sales, Revenue, Price and Gross Margin (2013-2018)

- 6.1.4 Main Business/Business Overview
- 6.2 Mitsuboshi Chemical

6.2.2 Acetoacetanilide Product Category, Application and Specification

- 6.2.2.1 Product A
- 6.2.2.2 Product B

6.2.3 Mitsuboshi Chemical Acetoacetanilide Sales, Revenue, Price and Gross Margin (2013-2018)

6.2.4 Main Business/Business Overview

6.3 Laxmi Organic Industries

6.3.2 Acetoacetanilide Product Category, Application and Specification

6.3.2.1 Product A

6.3.2.2 Product B

6.3.3 Laxmi Organic Industries Acetoacetanilide Sales, Revenue, Price and Gross Margin (2013-2018)

- 6.3.4 Main Business/Business Overview
- 6.4 Cangzhou Goldlion Chemicals

6.4.2 Acetoacetanilide Product Category, Application and Specification

6.4.2.1 Product A

6.4.2.2 Product B

6.4.3 Cangzhou Goldlion Chemicals Acetoacetanilide Sales, Revenue, Price and Gross Margin (2013-2018)

6.4.4 Main Business/Business Overview

6.5 Nantong Acetic Acid Chemical

6.5.2 Acetoacetanilide Product Category, Application and Specification

6.5.2.1 Product A

6.5.2.2 Product B

6.5.3 Nantong Acetic Acid Chemical Acetoacetanilide Sales, Revenue, Price and Gross Margin (2013-2018)

- 6.5.4 Main Business/Business Overview
- 6.6 Jiangsu Changyu Chemical
 - 6.6.2 Acetoacetanilide Product Category, Application and Specification
 - 6.6.2.1 Product A

6.6.2.2 Product B

6.6.3 Jiangsu Changyu Chemical Acetoacetanilide Sales, Revenue, Price and Gross



Margin (2013-2018)

6.6.4 Main Business/Business Overview

6.7 Hangzhou Dayangchem

6.7.2 Acetoacetanilide Product Category, Application and Specification

6.7.2.1 Product A

6.7.2.2 Product B

6.7.3 Hangzhou Dayangchem Acetoacetanilide Sales, Revenue, Price and Gross Margin (2013-2018)

6.7.4 Main Business/Business Overview

6.8 Jiangsu Tiancheng biochemical products

6.8.2 Acetoacetanilide Product Category, Application and Specification

6.8.2.1 Product A

6.8.2.2 Product B

6.8.3 Jiangsu Tiancheng biochemical products Acetoacetanilide Sales, Revenue, Price and Gross Margin (2013-2018)

6.8.4 Main Business/Business Overview

6.9 Shanghai Qidian Chemical

6.9.2 Acetoacetanilide Product Category, Application and Specification

6.9.2.1 Product A

6.9.2.2 Product B

6.9.3 Shanghai Qidian Chemical Acetoacetanilide Sales, Revenue, Price and Gross Margin (2013-2018)

6.9.4 Main Business/Business Overview

6.10 Jiaozhou Fine Chemical

6.10.2 Acetoacetanilide Product Category, Application and Specification

6.10.2.1 Product A

6.10.2.2 Product B

6.10.3 Jiaozhou Fine Chemical Acetoacetanilide Sales, Revenue, Price and Gross Margin (2013-2018)

6.10.4 Main Business/Business Overview

7 ACETOACETANILIDE MANUFACTURING COST ANALYSIS

7.1 Acetoacetanilide Key Raw Materials Analysis

7.1.1 Key Raw Materials

- 7.1.2 Price Trend of Key Raw Materials
- 7.1.3 Key Suppliers of Raw Materials
- 7.1.4 Market Concentration Rate of Raw Materials
- 7.2 Proportion of Manufacturing Cost Structure



- 7.2.1 Raw Materials
- 7.2.2 Labor Cost
- 7.2.3 Manufacturing Expenses
- 7.3 Manufacturing Process Analysis of Acetoacetanilide

8 INDUSTRIAL CHAIN, SOURCING STRATEGY AND DOWNSTREAM BUYERS

- 8.1 Acetoacetanilide Industrial Chain Analysis
- 8.2 Upstream Raw Materials Sourcing
- 8.3 Raw Materials Sources of Acetoacetanilide Major Manufacturers in 2017
- 8.4 Downstream Buyers

9 MARKETING STRATEGY ANALYSIS, DISTRIBUTORS/TRADERS

- 9.1 Marketing Channel
 - 9.1.1 Direct Marketing
 - 9.1.2 Indirect Marketing
 - 9.1.3 Marketing Channel Development Trend
- 9.2 Market Positioning
 - 9.2.1 Pricing Strategy
 - 9.2.2 Brand Strategy
 - 9.2.3 Target Client
- 9.3 Distributors/Traders List

10 MARKET EFFECT FACTORS ANALYSIS

- 10.1 Technology Progress/Risk
- 10.1.1 Substitutes Threat
- 10.1.2 Technology Progress in Related Industry
- 10.2 Consumer Needs/Customer Preference Change
- 10.3 Economic/Political Environmental Change

11 UNITED STATES ACETOACETANILIDE MARKET SIZE (VALUE AND VOLUME) FORECAST (2018-2025)

- 11.1 United States Acetoacetanilide Sales Volume, Revenue Forecast (2018-2025)
- 11.2 United States Acetoacetanilide Sales Volume Forecast by Type (2018-2025)
- 11.3 United States Acetoacetanilide Sales Volume Forecast by Application (2018-2025)
- 11.4 United States Acetoacetanilide Sales Volume Forecast by Region (2018-2025)



12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

- 13.1 Methodology/Research Approach
 - 13.1.1 Research Programs/Design
 - 13.1.2 Market Size Estimation
 - 13.1.3 Market Breakdown and Data Triangulation
- 13.2 Data Source
- 13.2.1 Secondary Sources
- 13.2.2 Primary Sources
- 13.3 Disclaimer

The report requires updating with new data and is sent in 2-3 business days after order is placed.



List Of Tables

LIST OF TABLES AND FIGURES

Figure Product Picture of Acetoacetanilide Figure United States Acetoacetanilide Market Size (K MT) by Type (2013-2025) Figure United States Acetoacetanilide Sales Volume Market Share by Type (Product Category) in 2017 Figure Dry Powder Product Picture Figure Wet Solid Product Picture Figure Others Product Picture Figure United States Acetoacetanilide Market Size (K MT) by Application (2013-2025) Figure United States Sales Market Share of Acetoacetanilide by Application in 2017 Figure Agricultural Chemicals Examples Table Key Downstream Customer in Agricultural Chemicals Figure Coatings Examples Table Key Downstream Customer in Coatings **Figure Pigments Examples** Table Key Downstream Customer in Pigments Figure United States Acetoacetanilide Market Size (Million USD) by Region (2013-2025) Figure The West Acetoacetanilide Revenue (Million USD) and Growth Rate (2013 - 2025)Figure Southwest Acetoacetanilide Revenue (Million USD) and Growth Rate (2013 - 2025)Figure The Middle Atlantic Acetoacetanilide Revenue (Million USD) and Growth Rate (2013 - 2025)Figure New England Acetoacetanilide Revenue (Million USD) and Growth Rate (2013 - 2025)Figure The South of US Acetoacetanilide Revenue (Million USD) and Growth Rate (2013 - 2025)Figure The Midwest Acetoacetanilide Revenue (Million USD) and Growth Rate (2013 - 2025)Figure United States Acetoacetanilide Sales (K MT) and Growth Rate (2013-2025) Figure United States Acetoacetanilide Revenue (Million USD) and Growth Rate (2013 - 2025)Figure United States Acetoacetanilide Market Major Players Product Sales Volume (K MT) (2013-2018) Table United States Acetoacetanilide Sales (K MT) of Key Players/Suppliers (2013 - 2018)



Table United States Acetoacetanilide Sales Share by Players/Suppliers (2013-2018) Figure 2017 United States Acetoacetanilide Sales Share by Players/Suppliers Figure 2017 United States Acetoacetanilide Sales Share by Players/Suppliers Figure United States Acetoacetanilide Market Major Players Product Revenue (Million USD) (2013-2018)

Table United States Acetoacetanilide Revenue (Million USD) by Players/Suppliers (2013-2018)

Table United States Acetoacetanilide Revenue Share by Players/Suppliers (2013-2018) Figure 2017 United States Acetoacetanilide Revenue Share by Players/Suppliers Figure 2017 United States Acetoacetanilide Revenue Share by Players/Suppliers Table United States Market Acetoacetanilide Average Price (USD/MT) of Key Players/Suppliers (2013-2018)

Figure United States Market Acetoacetanilide Average Price (USD/MT) of Key Players/Suppliers in 2017

Figure United States Acetoacetanilide Market Share of Top 3 Players/Suppliers Figure United States Acetoacetanilide Market Share of Top 5 Players/Suppliers Table United States Players/Suppliers Acetoacetanilide Manufacturing Base Distribution and Sales Area

Table United States Players/Suppliers Acetoacetanilide Product Category

Table United States Acetoacetanilide Sales (K MT) by Region (2013-2018)

Table United States Acetoacetanilide Sales Share by Region (2013-2018)

Figure United States Acetoacetanilide Sales Share by Region (2013-2018)

Figure United States Acetoacetanilide Sales Market Share by Region in 2017

Table United States Acetoacetanilide Revenue (Million USD) and Market Share by Region (2013-2018)

Table United States Acetoacetanilide Revenue Share by Region (2013-2018) Figure United States Acetoacetanilide Revenue Market Share by Region (2013-2018) Figure United States Acetoacetanilide Revenue Market Share by Region in 2017 Table United States Acetoacetanilide Price (USD/MT) by Region (2013-2018) Table United States Acetoacetanilide Sales (K MT) by Type (2013-2018) Table United States Acetoacetanilide Sales Share by Type (2013-2018) Figure United States Acetoacetanilide Sales Share by Type (2013-2018) Figure United States Acetoacetanilide Sales Market Share by Type in 2017 Table United States Acetoacetanilide Revenue (Million USD) and Market Share by Type (2013-2018)

Table United States Acetoacetanilide Revenue Share by Type (2013-2018)Figure Revenue Market Share of Acetoacetanilide by Type (2013-2018)Figure Revenue Market Share of Acetoacetanilide by Type in 2017Table United States Acetoacetanilide Price (USD/MT) by Types (2013-2018)



Figure United States Acetoacetanilide Sales Growth Rate by Type (2013-2018) Table United States Acetoacetanilide Sales (K MT) by Application (2013-2018) Table United States Acetoacetanilide Sales Market Share by Application (2013-2018) Figure United States Acetoacetanilide Sales Market Share by Application (2013-2018) Figure United States Acetoacetanilide Sales Market Share by Application in 2017 Table United States Acetoacetanilide Sales Growth Rate by Application (2013-2018) Figure United States Acetoacetanilide Sales Growth Rate by Application (2013-2018) Figure United States Acetoacetanilide Sales Growth Rate by Application (2013-2018) Figure United States Acetoacetanilide Sales Growth Rate by Application (2013-2018) Figure United States Acetoacetanilide Sales Growth Rate by Application (2013-2018)

Table Eastman Chemical Acetoacetanilide Sales (K MT), Revenue (Million USD), Price (USD/MT) and Gross Margin (2013-2018)

Figure Eastman Chemical Acetoacetanilide Sales Growth Rate (2013-2018) Figure Eastman Chemical Acetoacetanilide Sales Market Share in United States (2013-2018)

Figure Eastman Chemical Acetoacetanilide Revenue Market Share in United States (2013-2018)

Table Mitsuboshi Chemical Basic Information List

Table Mitsuboshi Chemical Acetoacetanilide Sales (K MT), Revenue (Million USD), Price (USD/MT) and Gross Margin (2013-2018)

Figure Mitsuboshi Chemical Acetoacetanilide Sales Growth Rate (2013-2018)

Figure Mitsuboshi Chemical Acetoacetanilide Sales Market Share in United States (2013-2018)

Figure Mitsuboshi Chemical Acetoacetanilide Revenue Market Share in United States (2013-2018)

Table Laxmi Organic Industries Basic Information List

Table Laxmi Organic Industries Acetoacetanilide Sales (K MT), Revenue (Million USD), Price (USD/MT) and Gross Margin (2013-2018)

Figure Laxmi Organic Industries Acetoacetanilide Sales Growth Rate (2013-2018) Figure Laxmi Organic Industries Acetoacetanilide Sales Market Share in United States (2013-2018)

Figure Laxmi Organic Industries Acetoacetanilide Revenue Market Share in United States (2013-2018)

Table Cangzhou Goldlion Chemicals Basic Information List

Table Cangzhou Goldlion Chemicals Acetoacetanilide Sales (K MT), Revenue (Million USD), Price (USD/MT) and Gross Margin (2013-2018)

Figure Cangzhou Goldlion Chemicals Acetoacetanilide Sales Growth Rate (2013-2018) Figure Cangzhou Goldlion Chemicals Acetoacetanilide Sales Market Share in United States (2013-2018)

Figure Cangzhou Goldlion Chemicals Acetoacetanilide Revenue Market Share in United States (2013-2018)



Table Nantong Acetic Acid Chemical Basic Information List

Table Nantong Acetic Acid Chemical Acetoacetanilide Sales (K MT), Revenue (Million USD), Price (USD/MT) and Gross Margin (2013-2018)

Figure Nantong Acetic Acid Chemical Acetoacetanilide Sales Growth Rate (2013-2018)

Figure Nantong Acetic Acid Chemical Acetoacetanilide Sales Market Share in United States (2013-2018)

Figure Nantong Acetic Acid Chemical Acetoacetanilide Revenue Market Share in United States (2013-2018)

Table Jiangsu Changyu Chemical Basic Information List

Table Jiangsu Changyu Chemical Acetoacetanilide Sales (K MT), Revenue (Million USD), Price (USD/MT) and Gross Margin (2013-2018)

Figure Jiangsu Changyu Chemical Acetoacetanilide Sales Growth Rate (2013-2018)

Figure Jiangsu Changyu Chemical Acetoacetanilide Sales Market Share in United States (2013-2018)

Figure Jiangsu Changyu Chemical Acetoacetanilide Revenue Market Share in United States (2013-2018)

Table Hangzhou Dayangchem Basic Information List

Table Hangzhou Dayangchem Acetoacetanilide Sales (K MT), Revenue (Million USD), Price (USD/MT) and Gross Margin (2013-2018)

Figure Hangzhou Dayangchem Acetoacetanilide Sales Growth Rate (2013-2018)

Figure Hangzhou Dayangchem Acetoacetanilide Sales Market Share in United States (2013-2018)

Figure Hangzhou Dayangchem Acetoacetanilide Revenue Market Share in United States (2013-2018)

Table Jiangsu Tiancheng biochemical products Basic Information List

Table Jiangsu Tiancheng biochemical products Acetoacetanilide Sales (K MT),

Revenue (Million USD), Price (USD/MT) and Gross Margin (2013-2018)

Figure Jiangsu Tiancheng biochemical products Acetoacetanilide Sales Growth Rate (2013-2018)

Figure Jiangsu Tiancheng biochemical products Acetoacetanilide Sales Market Share in United States (2013-2018)

Figure Jiangsu Tiancheng biochemical products Acetoacetanilide Revenue Market Share in United States (2013-2018)

Table Shanghai Qidian Chemical Basic Information List

Table Shanghai Qidian Chemical Acetoacetanilide Sales (K MT), Revenue (Million

USD), Price (USD/MT) and Gross Margin (2013-2018)

Figure Shanghai Qidian Chemical Acetoacetanilide Sales Growth Rate (2013-2018) Figure Shanghai Qidian Chemical Acetoacetanilide Sales Market Share in United States (2013-2018)



Figure Shanghai Qidian Chemical Acetoacetanilide Revenue Market Share in United States (2013-2018)

Table Jiaozhou Fine Chemical Basic Information List

Table Jiaozhou Fine Chemical Acetoacetanilide Sales (K MT), Revenue (Million USD), Price (USD/MT) and Gross Margin (2013-2018)

Figure Jiaozhou Fine Chemical Acetoacetanilide Sales Growth Rate (2013-2018)

Figure Jiaozhou Fine Chemical Acetoacetanilide Sales Market Share in United States (2013-2018)

Figure Jiaozhou Fine Chemical Acetoacetanilide Revenue Market Share in United States (2013-2018)

Table Production Base and Market Concentration Rate of Raw Material

Figure Price Trend of Key Raw Materials

Table Key Suppliers of Raw Materials

Figure Manufacturing Cost Structure of Acetoacetanilide

Figure Manufacturing Process Analysis of Acetoacetanilide

Figure Acetoacetanilide Industrial Chain Analysis

Table Raw Materials Sources of Acetoacetanilide Major Players/Suppliers in 2017

Table Major Buyers of Acetoacetanilide

Table Distributors/Traders List

Figure United States Acetoacetanilide Sales Volume (K MT) and Growth Rate Forecast (2018-2025)

Figure United States Acetoacetanilide Revenue (Million USD) and Growth Rate Forecast (2018-2025)

Figure United States Acetoacetanilide Price (USD/MT) Trend Forecast (2018-2025) Table United States Acetoacetanilide Sales Volume (K MT) Forecast by Type (2018-2025)

Figure United States Acetoacetanilide Sales Volume (K MT) Forecast by Type (2018-2025)

Figure United States Acetoacetanilide Sales Volume (K MT) Forecast by Type in 2025 Table United States Acetoacetanilide Sales Volume (K MT) Forecast by Application (2018-2025)

Figure United States Acetoacetanilide Sales Volume (K MT) Forecast by Application (2018-2025)

Figure United States Acetoacetanilide Sales Volume (K MT) Forecast by Application in 2025

Table United States Acetoacetanilide Sales Volume (K MT) Forecast by Region (2018-2025)

Table United States Acetoacetanilide Sales Volume Share Forecast by Region (2018-2025)



Figure United States Acetoacetanilide Sales Volume Share Forecast by Region (2018-2025)

Figure United States Acetoacetanilide Sales Volume Share Forecast by Region in 2025

Table Research Programs/Design for This Report

Figure Bottom-up and Top-down Approaches for This Report

Figure Data Triangulation

Table Key Data Information from Secondary Sources

Table Key Data Information from Primary Sources



I would like to order

Product name: United States Acetoacetanilide Market Report 2018 Product link: https://marketpublishers.com/r/U584254F09AEN.html Price: US\$ 3,800.00 (Single User License / Electronic Delivery) If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/U584254F09AEN.html</u>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name: Last name: Email: Company: Address: City: Zip code: Country: Tel: Fax: Your message:

**All fields are required

Custumer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <u>https://marketpublishers.com/docs/terms.html</u>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970