

## Appendix I – Chemistry’s Contributions to the U.S. Industrial Base

**Table I-2. Chemistry’s Contribution to the U.S. GDP**

The contribution of chemistry to the U.S. GDP can be calculated in many different ways. The table below lists the percent contribution to the 2008 U.S. GDP for several different industries. Summing the categories most commonly associated with chemistry (industries highlighted in blue) generates a contribution of **12.1 percent GDP** for chemistry. Adding the secondary industries highlighted in yellow boosts chemistry’s contribution to **15.9 percent GDP**.

Industry Sector	2008
Value added as a percentage of gross domestic product	(Percent)
Gross domestic product	100.0
Private industries	87.2
Agriculture, forestry, fishing, and hunting	1.1
Farms	0.9
Forestry, fishing, and related activities	0.2
Mining	2.1
Oil and gas extraction	1.4
Mining, except oil and gas	0.3
Support activities for mining	0.4
Utilities	1.8
Construction	4.4
Manufacturing	11.6
Durable goods	6.4
Wood products	0.2
Nonmetallic mineral products	0.3
Primary metals	0.4
Fabricated metal products	0.9
Machinery	0.9
Computer and electronic products	1.4
Electrical equipment, appliances, and components	0.3
Motor vehicles, bodies and trailers, and parts	0.6
Other transportation equipment	0.7
Furniture and related products	0.2
Miscellaneous manufacturing	0.5
Nondurable goods	5.2
Food and beverage and tobacco products	1.3
Textile mills and textile product mills	0.1
Apparel and leather and allied products	0.1
Paper products	0.4
Printing and related support activities	0.3
Petroleum and coal products	1.0
Chemical products	1.5
Plastics and rubber products	0.5
Wholesale trade	5.7
Retail trade	6.0
Transportation and warehousing	2.8

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Air transportation	0.4
Rail transportation	0.2
Water transportation	0.1
Truck transportation	0.9
Transit and ground passenger transportation	0.2
Pipeline transportation	0.1
Other transportation and support activities	0.7
Warehousing and storage	0.3
Information	4.3
Publishing industries (includes software)	1.0
Motion picture and sound recording industries	0.4
Broadcasting and telecommunications	2.4
Information and data processing services	0.5
Finance, insurance, real estate, rental, and leasing	21.1
Finance and insurance	8.3
Federal Reserve banks, credit intermediation, & related activities	3.4
Securities, commodity contracts, and investments	1.4
Insurance carriers and related activities	3.2
Funds, trusts, and other financial vehicles	0.4
Real estate and rental and leasing	12.8
Real estate	11.4
Rental and leasing services and lessors of intangible assets	1.4
Professional and business services	12.1
Professional, scientific, and technical services	7.4
Legal services	1.5
Computer systems design and related services	1.2
Miscellaneous professional, scientific, and technical services	4.8
Management of companies and enterprises	1.8
Administrative and waste management services	2.9
Administrative and support services	2.6
Waste management and remediation services	0.3
Educational services, health care, and social assistance	7.9
Educational services	1.0
Health care and social assistance	6.9
Ambulatory health care services	3.4
Hospitals and nursing and residential care facilities	2.9
Social assistance	0.6
Arts, entertainment, recreation, accommodation, and food services	3.8
Arts, entertainment, and recreation	1.0
Performing arts, spectator sports, museums, and related activities	0.5
Amusements, gambling, and recreation industries	0.4
Accommodation and food services	2.8
Accommodation	0.8
Food services and drinking places	2.0
Other services, except government	2.5
Government	12.8
Federal	4.0

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General government	3.6
Government enterprises	0.4
State and local	8.8
General government	8.1
Government enterprises	0.7

Source: Bureau of Economic Analysis (DoC). Gross-Domestic-Product-(GDP)-by-Industry Data. [http://www.bea.gov/industry/gdpbyind\\_data.htm](http://www.bea.gov/industry/gdpbyind_data.htm) (Accessed September 2010)

The American Chemistry Council (ACC) states, “One quarter of the U.S. GDP is directly related to chemistry.” For their estimates, the ACC includes the industries listed below.

### **Intermediate Goods**

Agriculture  
Oil and Gas Extraction and Metal Mining  
Water and Sewage Treatment  
Textiles and Fabrics  
Engineered Wood Products  
Paper and Paper Products  
Petroleum Products  
Rubber and Plastic Products  
Nonmetallic Mineral Products  
Aluminum  
Windows and Doors  
Metal Coating  
Industrial Machinery  
Commercial and Service Industry Machinery  
Ventilation and HVAC Equipment  
Semiconductors and Electronic Components  
Electrical Equipment and Components

### **Consumer and Other Final Products**

Food, Beverage and Tobacco  
Textile Mill Products  
Apparel and Leather Products  
Printing  
Book and Periodical Publishing and Software  
Audio/Visual Recording  
Computers  
Household Appliances  
Mobile homes  
Light Vehicles and Parts  
Ship and Boatbuilding  
Furniture and Fixtures  
Medical Equipment and Supplies

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Other Miscellaneous Manufacturing

### **Construction**

Residential Building Contractors  
Nonresidential Building Contractors  
Specialty Trade Contractors

### **Wholesale Distribution**

Chemical Wholesalers  
Druggist Goods Wholesalers  
Farm Supplies  
Paint Wholesalers

### **Services**

Testing Labs  
Specialized Design Services  
Scientific R&D Centers  
Photographic Services  
Veterinary Services  
Facilities Support Services  
Document Preparation Services  
Services to Buildings and Dwellings  
Waste Management and Remediation Services  
Health Care Services  
Auto Repair  
Personal and Laundry Services

Source: American Chemistry Council. Jobs in Chemistry.  
<http://www.americanchemistry.com/Jobs> (accessed July, 2010).