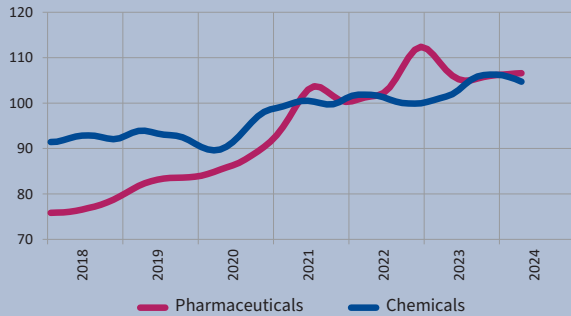


World Chemistry Report

The economic situation of the chemical industry worldwide
in facts and figures

Global Chemicals and Pharmaceuticals
Production, index 2021=100, trend



Sources: Chemdata International, VCI

Global Chemicals and Pharmaceuticals
Production, seasonally adjusted

| | percentage change against previous year | | | |
|----------------|---|-------|--------|------------------|
| | 2022 | 2023 | Apr-24 | Jan. - Apr. 2024 |
| chemicals (20) | + 1.3 | + 2.6 | + 2.9 | + 4.3 |
| pharma (21) | + 6.0 | + 1.2 | + 2.0 | - 2.9 |
| 20/21 | + 3.4 | + 2.3 | + 1.7 | + 1.1 |

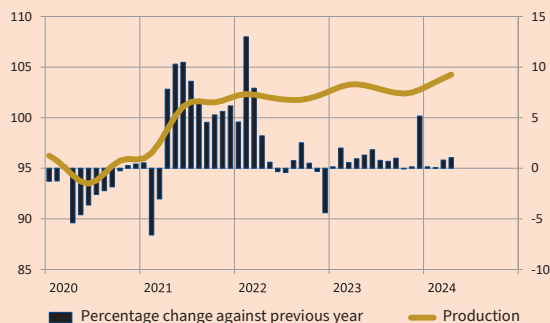
The worldwide production trend of chemicals decreased in April. Negative impulses came from Europe, Asia and Latin America. But almost all regions produced more chemicals compared to last April.

The worldwide production trend of pharmaceuticals slightly increased and remained on a high level. Demand for pharmaceuticals was stable.

Production of Chemicals and Pharmaceuticals percentage change against previous year

| countries and regions | 2022 | 2023 | Apr-24 | Jan. - Apr. 2024 |
|------------------------|--------|-------|--------|------------------|
| World | + 3.4 | + 2.3 | + 1.7 | + 1.1 |
| Europe | + 7.7 | - 0.5 | - 1.0 | - 6.5 |
| Western Europe | + 8.9 | - 0.4 | - 1.8 | - 8.1 |
| Germany | - 5.4 | - 9.0 | + 0.7 | + 1.3 |
| France | - 0.8 | - 1.1 | + 6.4 | + 5.0 |
| Italy | + 2.1 | - 0.5 | + 0.3 | - 1.9 |
| UK | - 4.1 | + 1.8 | - 0.3 | - 0.7 |
| Spain | + 0.3 | - 0.3 | + 7.4 | + 8.3 |
| Eastern Europe | - 0.5 | - 1.4 | + 5.5 | + 6.4 |
| Poland | + 10.3 | - 7.1 | + 11.4 | + 6.7 |
| Russia | + 0.2 | + 4.0 | + 3.6 | + 6.9 |
| European Union (EU 27) | + 8.8 | - 0.4 | + 0.2 | - 6.6 |
| North America | + 2.1 | + 1.2 | + 1.1 | + 0.5 |
| USA | + 2.3 | + 1.3 | + 1.1 | + 0.5 |
| Canada | - 0.2 | - 2.9 | - 1.3* | + 2.8 |
| Latin America | + 1.8 | - 4.6 | - 3.1 | - 4.1 |
| Brazil | + 0.6 | - 4.7 | - 1.8 | - 4.3 |
| Chile | - 3.1 | - | + 19.3 | - 5.9 |
| Asia | + 2.1 | + 3.9 | + 2.9 | + 4.4 |
| China | + 3.9 | + 6.0 | + 4.0 | + 5.5 |
| Japan | - 0.8 | - 3.8 | - 2.6* | - 1.2 |
| India | - 1.4 | + 5.0 | + 1.0 | + 1.0 |
| South Korea | - 6.6 | - 6.5 | + 5.4 | + 2.0 |
| World excl. China | + 3.1 | + 0.6 | + 0.5 | - 1.1 |

North America Chemicals and Pharmaceuticals Production, index 2021=100, trend



Sources: Chemdata International. VCI

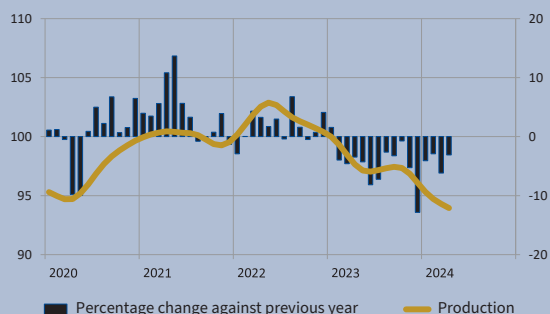
North America Chemicals and Pharmaceuticals Production, seasonally adjusted

| | percentage change against previous year | | | |
|----------------|---|-------|--------|------------------|
| | 2022 | 2023 | Apr-24 | Jan. - Apr. 2024 |
| chemicals (20) | + 2.0 | - 1.3 | + 1.3 | + 0.5 |
| pharma (21) | + 2.3 | + 5.7 | + 0.8 | + 0.5 |
| 20/21 | + 2.1 | + 1.2 | + 1.1 | + 0.5 |

Production trend for the chemical-pharmaceutical industry continued its positive momentum for North America. The impulses came mainly from abroad. Domestic demand remained subdued.

In April, production of chemicals increased by 1.3 percent for North America compared to last year. Production of pharmaceuticals grew by 0.8 percent.

Latin America Chemicals and Pharmaceuticals Production, index 2021=100, trend



Sources: Chemdata International. VCI

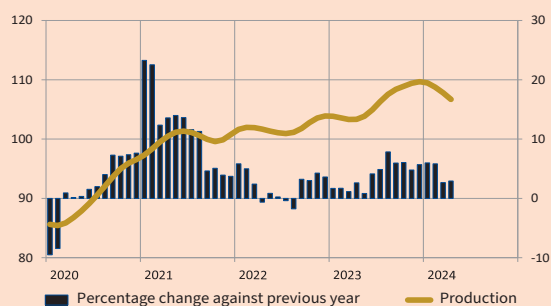
Latin America Chemicals and Pharmaceuticals Production, seasonally adjusted

| | percentage change against previous year | | | |
|----------------|---|-------|--------|------------------|
| | 2022 | 2023 | Apr-24 | Jan. - Apr. 2024 |
| chemicals (20) | + 2.1 | - 5.4 | - 2.6 | - 2.0 |
| pharma (21) | + 1.0 | - 2.7 | - 5.9 | - 9.9 |
| 20/21 | + 1.8 | - 4.6 | - 3.1 | - 4.1 |

Production trend for the chemical-pharmaceutical industry decreased for Latin America. The negative trend thus continued.

In April, production of pharmaceuticals dropped clearly by 5.9 percent compared to last year for Latin America. Production of chemicals decreased as well, but with a lower dynamic, by minus 2.6 percent.

Asia Chemicals and Pharmaceuticals Production, index 2021=100, trend



Sources: Chemdata International. VCI

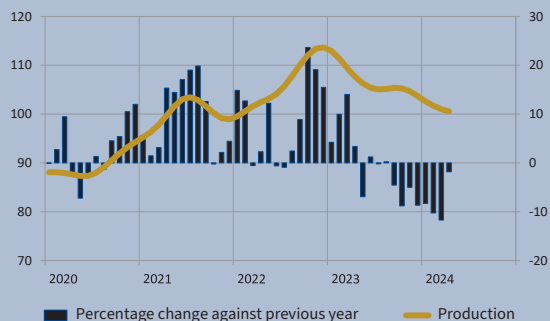
Asia Chemicals and Pharmaceuticals Production, seasonally adjusted

| | percentage change against previous year | | | |
|----------------|---|-------|--------|------------------|
| | 2022 | 2023 | Apr-24 | Jan. - Apr. 2024 |
| chemicals (20) | + 3.2 | + 6.2 | + 3.4 | + 5.8 |
| pharma (21) | - 1.4 | - 3.5 | + 2.3 | + 0.2 |
| 20/21 | + 2.1 | + 3.9 | + 2.9 | + 4.4 |

Production trend of the chemical-pharmaceutical industry lost its positive momentum and has started to decrease for Asia.

But compared to last year, production of chemical still increased by 3.4 percent and production of pharmaceuticals grew by 2.3 percent in April.

Western Europe Chemical and Pharma Production, index 2021=100, trend



Sources: Chemdata International. VCI

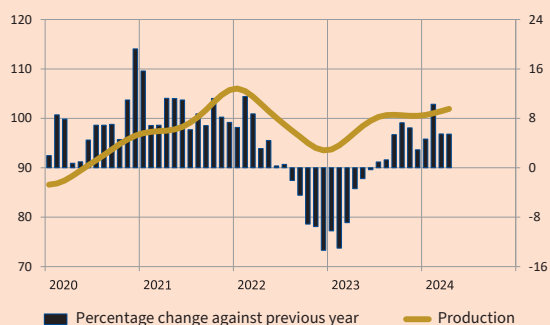
Western Europe Chemical and Pharma Production, seasonally adjusted

| | percentage change against previous year | | | |
|----------------|---|-------|--------|------------------|
| | 2022 | 2023 | Apr-24 | Jan. - Apr. 2024 |
| chemicals (20) | - 6.6 | - 7.9 | + 1.7 | + 1.1 |
| pharma (21) | + 20.4 | + 6.1 | + 2.2 | - 8.2 |
| 20/21 | + 8.9 | - 0.4 | - 1.8 | - 8.1 |

Production trend of the chemical-pharmaceutical industry continued its negative trend for Western Europe. High production costs and an only slow development of the world economy hindered a faster recovery in Europe.

But compared to last year, production of chemicals and of pharmaceuticals increased in April.

Eastern Europe Chemical and Pharma Production, index 2021=100, trend



Sources: Chemdata International. VCI

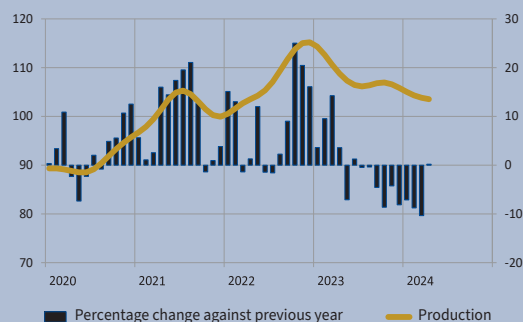
Eastern Europe Chemical and Pharma Production, seasonally adjusted

| | percentage change against previous year | | | |
|----------------|---|-------|--------|------------------|
| | 2022 | 2023 | Apr-24 | Jan. - Apr. 2024 |
| chemicals (20) | - 3.3 | - 2.5 | + 7.3 | + 7.6 |
| pharma (21) | + 9.0 | + 2.3 | + 0.3 | + 2.2 |
| 20/21 | - 0.5 | - 1.4 | + 5.5 | + 6.4 |

Production of chemicals decreased in 2022 and 2023 for Eastern Europe. In the current year, production of chemicals rose significantly by 7.6 percent compared to last year. Pharmaceutical production also increased in 2024.

In April, production of the chemical industry increased strongly by 7.3 percent for Eastern Europe. Production of pharmaceuticals grew only slowly.

European Union Chemical and Pharma Production, index 2021=100, trend



Sources: Chemdata International. VCI

European Union Chemical and Pharma Production, seasonally adjusted

| | percentage change against previous year | | | |
|----------------|---|-------|--------|------------------|
| | 2022 | 2023 | Apr-24 | Jan. - Apr. 2024 |
| chemicals (20) | - 6.7 | - 8.5 | + 3.3 | + 2.6 |
| pharma (21) | + 22.4 | + 5.8 | + 1.4 | - 10.5 |
| 20/21 | + 8.8 | - 0.4 | + 0.2 | - 6.6 |

Production trend of the chemical-pharmaceutical industry continued its negative trend for the EU27. High production costs and an only slow development of the world economy hindered a faster recovery in Europe.

But compared to last year, production of chemicals and of pharmaceuticals increased in April.

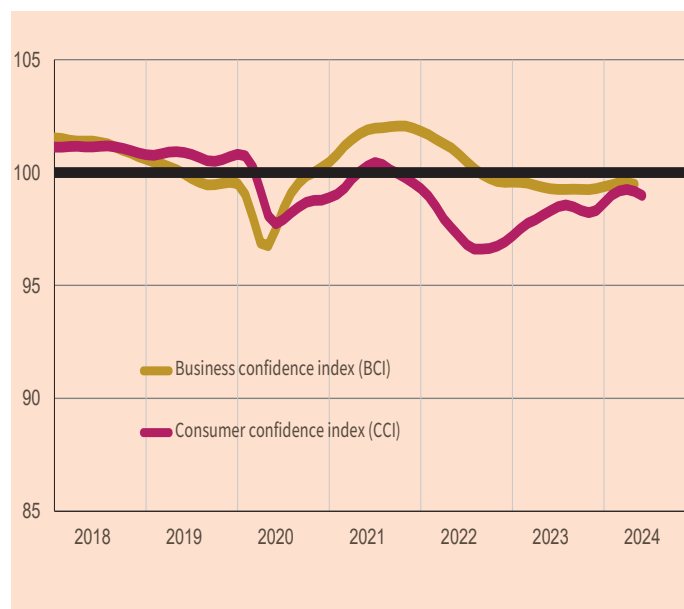
Production of Chemicals (excl. Pharma)

percentage change against previous year

| countries and regions | 2022 | 2023 | Apr-24 | Jan. - Apr. 2024 |
|------------------------|--------|--------|--------|------------------|
| World | + 1.3 | + 2.6 | + 2.9 | + 4.3 |
| Europe | - 6.0 | - 6.9 | + 2.9 | + 2.4 |
| Western Europe | - 6.6 | - 7.9 | + 1.7 | + 1.1 |
| Germany | - 10.3 | - 12.1 | + 5.8 | + 2.9 |
| France | - 4.4 | - 1.1 | + 1.5 | + 3.1 |
| Italy | - 4.1 | - 6.7 | - 3.2 | - 1.4 |
| UK | - 4.5 | - 10.1 | - 3.2 | - 5.1 |
| Spain | - 5.4 | - 2.0 | + 4.8 | + 6.8 |
| Eastern Europe | - 3.3 | - 2.5 | + 7.3 | + 7.6 |
| Poland | + 8.7 | - 12.0 | + 17.8 | + 11.8 |
| Russia | - 2.3 | + 4.6 | + 4.5 | + 6.9 |
| European Union (EU 27) | - 6.7 | - 8.5 | + 3.3 | + 2.6 |
| North America | + 2.0 | - 1.3 | + 1.3 | + 0.5 |
| USA | + 2.3 | - 1.3 | + 1.2 | + 0.3 |
| Canada | - 2.9 | - 2.6 | - 0.3* | + 3.5 |
| Latin America | + 2.1 | - 5.4 | - 2.6 | - 2.0 |
| Brazil | + 1.1 | - 5.8 | - 0.2 | - 0.6 |
| Chile | - 8.0 | - 1.2 | + 7.2 | + 8.1 |
| Asia | + 3.2 | + 6.2 | + 3.4 | + 5.8 |
| China | + 6.4 | + 9.6 | + 3.4 | + 6.5 |
| Japan | - 3.8 | - 6.4 | - 2.9 | - 2.7 |
| India | + 4.2 | - 0.2 | - 0.3 | - 0.1 |
| South Korea | - 9.9 | - 9.6 | + 2.4 | - 1.2 |

Sources: Chemdata International. VCI

*March 2024



BCI decreased in May.

The business confidence indicator provides information on future developments, based upon opinion surveys on developments in production, orders and stocks of finished goods in the industry sector. It can be used to monitor output growth and to anticipate turning points in economic activity. Numbers above 100 suggest an increased confidence in near future business performance, and numbers below 100 indicate pessimism towards future performance.

CCI declined and remained below long-term trend.

The consumer confidence indicator provides an indication of future developments of households' consumption and saving, based upon answers regarding their expected financial situation, their sentiment about the general economic situation, unemployment and capability of savings. An indicator above 100 signals a boost in the consumers' confidence towards the future economic situation. Values below 100 indicate a pessimistic attitude towards future developments.

Calculation of the World Production Index

The World Production Index (WPI) measures the production volume of the business of chemistry. As input the WPI uses production indices of around 50 nations as published by national sources and Eurostat. Missing values have been

calculated using the FERİ forecasts. All indices are seasonally adjusted. The WPI measures production activity generally consistent with the overall industry nomenclature of NACE 20 and 21. As weights the WPI uses fixed weights based on the production values in the base year 2021.

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