

C₂ Chlorinated Solvents

14 August 2020

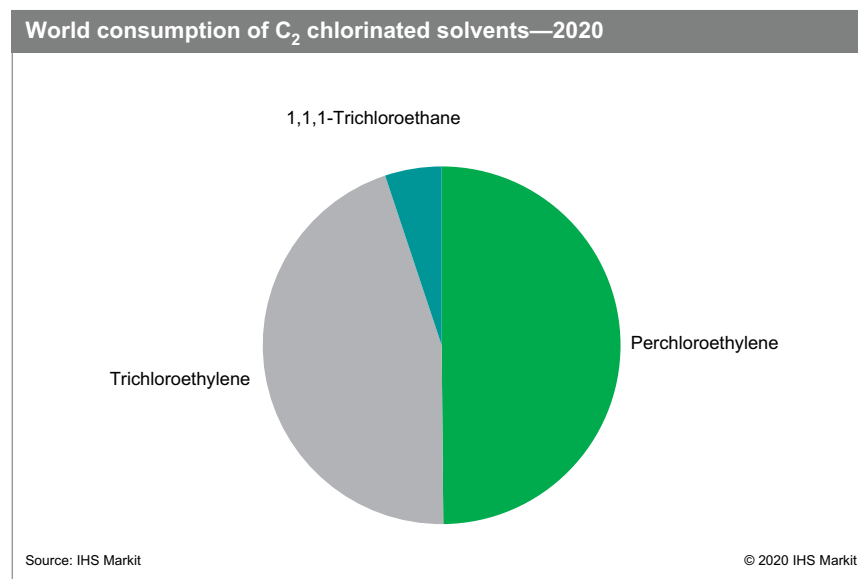
Abstract

The C₂ chlorinated solvents that have major commercial significance are perchloroethylene (PCE), trichloroethylene (TCE), and 1,1,1-trichloroethane (TCA) or methyl chloroform. Consumption of these solvents has been impacted negatively by declines in emissive applications as a result of regulations related to the 1987 Montreal Protocol on ozone-depleting chemicals and the 1997 Kyoto Protocol on global warming and climate change. The use of TCA has been phased out in most countries since 1 January 1996 because of its ozone depletion potential (ODP) in the upper atmosphere. Consequently, global consumption of all three solvents is now heavily dependent on their use as feedstock in the production of fluorocarbons.

Over the past two decades, the global fluorocarbons market has gone through several significant transitions toward the increased use of nonozone-depleting hydrofluorocarbons (HFCs) and nonglobal-warming, nonfluorocarbon alternatives in emissive applications. Consumption in the largest market segment—refrigeration and air conditioning—was negatively impacted by the Montreal Protocol and Kyoto Protocol amendments and legislations, and there are existing and proposed regulations limiting the future production, consumption, and trade of chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), and HFCs.

The C₂ chlorinated solvents that have significant commercial importance and are the subject of this report are perchloroethylene (PCE), trichloroethylene (TCE), and 1,1,1-trichloroethane (TCA). Global consumption of these three compounds in 2020 was estimated to be 1.02 million metric tons, increasing to 1.18 million metric tons in 2025, representing an annual average growth rate of 2.9%.

The following pie chart shows world consumption of C₂ chlorinated solvents:



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For more detailed information, see the table of contents, shown below.

IHS Markit's Chemical Economics Handbook – C₂ Chlorinated Solvents is the comprehensive and trusted guide for anyone seeking information on this industry. This latest report details global and regional information, including



Global summary;
regional coverage



Producers with
annual capacities
and plant sites



Production figures
and trends



Consumption and
forecasts by end use
application



Manufacturing
processes and
environmental issues



Trade – imports
and exports

Key benefits

IHS Markit's Chemical Economics Handbook – C₂ Chlorinated Solvents has been compiled using primary interviews with key suppliers and organizations, and leading representatives from the industry in combination with IHS Markit's unparalleled access to upstream and downstream market intelligence and expert insights into industry dynamics, trade, and economics.

This report can help you

- Identify trends and driving forces influencing chemical markets
- Forecast and plan for future demand
- Understand the impact of competing materials
- Identify and evaluate potential customers and competitors
- Evaluate producers
- Track changing prices and trade movements
- Analyze the impact of feedstocks, regulations, and other factors on chemical profitability

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