

Table SKTI-8

Value added of chemicals and chemical products industry, by region, country, or economy: 2002–19

(Millions of current dollars)

Region, country, or economy	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
World	405,241	445,478	509,771	529,708	571,994	659,869	717,963	687,255	813,509	938,688	928,274	951,414	952,772	943,524	952,857	1,006,736	1,085,992	1,052,913
North America	126,846	125,920	139,205	137,709	157,166	167,110	165,467	164,446	196,931	203,557	211,056	219,788	216,683	210,439	221,901	222,979	233,188	230,321
Canada	6,604	7,177	7,826	7,897	7,858	8,456	8,508	8,130	10,630	13,435	13,321	13,670	11,944	11,527	11,256	11,908	12,132	11,033
Mexico	9,826	8,684	10,279	10,598	13,401	13,814	15,351	12,105	14,156	14,664	16,751	17,762	14,683	13,292	12,042	10,283	10,782	10,712
United States	110,416	110,060	121,101	119,214	135,907	144,841	141,608	144,211	172,146	175,458	180,983	188,356	190,056	185,619	198,603	200,788	210,273	208,576
Central and South America	16,514	19,379	23,702	27,533	30,667	38,614	47,993	42,953	51,538	58,458	57,361	55,327	50,433	44,976	40,802	46,500	43,279	41,562
Argentina	1,705	2,431	3,106	3,847	4,552	5,505	7,378	7,528	9,247	9,708	9,682	9,088	5,871	5,427	5,918	6,841	5,661	5,441
Brazil	9,790	11,488	14,181	15,734	17,755	23,395	28,608	22,795	30,775	36,027	33,048	32,047	31,702	25,884	25,571	29,394	26,327	26,646
Chile	977	1,435	1,715	2,414	2,212	2,316	2,307	2,130	2,185	2,665	3,010	2,627	2,153	1,930	1,757	1,576	1,734	1,472
Colombia	1,552	1,650	1,916	2,174	2,346	2,732	3,265	3,420	3,809	3,840	4,280	4,317	4,133	3,634	3,559	3,685	3,840	3,485
Peru	534	566	650	754	829	996	1,213	1,210	1,381	1,501	1,717	1,824	1,760	1,609	1,607	1,611	1,661	1,696
Other Central and South America	1,955	1,809	2,133	2,610	2,974	3,670	5,222	5,869	4,141	4,718	5,624	5,424	4,814	6,491	2,389	3,393	4,057	2,822
Europe	111,313	129,785	146,546	153,007	160,423	183,213	201,694	163,170	175,320	201,061	184,094	190,416	192,564	184,586	180,542	189,564	199,287	178,417
EU	88,006	102,175	116,428	119,288	123,391	143,759	151,895	130,727	139,272	154,962	141,652	146,129	147,245	146,974	147,577	155,120	162,488	143,042
France	12,071	14,369	16,189	17,077	17,185	20,043	22,206	20,489	19,231	21,970	20,561	23,489	24,150	21,732	20,962	22,521	22,748	20,046
Germany	33,644	38,923	43,474	43,546	44,210	51,349	55,032	47,314	53,121	56,488	51,141	53,014	55,584	50,551	52,828	56,173	58,734	50,973
Italy	9,267	10,407	11,761	11,739	12,006	13,766	13,629	11,732	12,965	13,412	12,281	13,009	10,214	12,085	13,296	13,701	14,549	12,950
Spain	6,879	8,144	9,425	9,764	10,245	11,386	12,513	10,735	11,205	12,278	10,129	9,843	10,228	8,940	9,648	10,398	11,076	9,917
Other EU	26,146	30,332	35,579	37,162	39,746	47,215	48,517	40,457	42,750	50,815	47,540	46,775	47,069	53,666	50,844	52,326	55,381	49,155
Non-EU	23,307	27,610	30,118	33,720	37,032	39,454	49,799	32,443	36,048	46,099	42,442	44,287	45,319	37,611	32,965	34,444	36,799	35,375
United Kingdom	14,539	16,494	15,797	17,047	17,713	16,476	14,427	12,380	12,003	14,915	14,075	16,615	18,517	18,673	15,400	15,711	17,298	15,754
Russia	2,955	4,081	6,360	9,056	10,426	12,751	23,052	10,677	13,115	18,964	17,814	15,312	14,487	6,974	5,793	6,691	7,111	7,662
Switzerland	2,344	2,626	2,855	3,037	3,344	3,769	4,178	4,197	4,526	4,650	3,537	3,850	4,063	4,378	4,713	4,370	5,166	4,973
Other non-EU	3,468	4,409	5,106	4,579	5,549	6,459	8,141	5,188	6,405	7,569	7,017	8,510	8,252	7,586	7,058	7,672	7,225	6,985
Middle East	11,424	12,489	15,826	17,972	22,333	33,131	40,160	38,511	44,116	55,756	55,427	53,078	56,964	53,523	51,222	55,838	61,135	56,638
Iran	2,618	2,498	3,556	3,377	5,026	7,543	8,222	9,982	10,604	15,564	8,246	7,087	9,301	8,951	9,881	11,180	9,593	9,393
Israel	1,032	1,179	1,426	1,718	2,089	2,433	3,584	3,410	3,626	4,103	4,342	4,160	3,631	5,014	3,529	3,884	3,926	3,811
Saudi Arabia	3,969	4,332	5,014	5,760	6,692	10,441	12,074	12,445	14,994	16,542	18,520	19,415	20,976	23,159	23,541	25,386	31,011	25,671
United Arab Emirates	2,220	2,480	2,895	3,586	4,839	5,520	6,439	4,755	5,244	5,498	6,221	6,119	6,644	5,688	5,230	5,849	6,098	7,818
Other Middle East	1,586	2,002	2,935	3,530	3,686	7,194	9,840	7,918	9,648	14,049	18,098	16,296	16,412	10,710	9,041	9,540	10,507	9,944
Africa	4,917	6,448	7,844	8,710	6,815	7,831	9,044	8,818	10,191	10,251	11,075	10,760	10,742	9,885	10,383	10,509	11,893	13,189
Egypt	866	710	930	1,081	1,190	1,478	1,870	2,058	2,463	2,658	2,943	2,263	1,805	1,767	2,258	2,018	2,453	2,847
Nigeria	60	64	72	84	98	116	141	129	145	233	387	606	853	853	670	629	789	1,292
South Africa	2,774	4,263	5,276	5,669	3,564	3,606	3,862	3,816	4,203	3,870	4,229	4,012	3,947	3,434	2,965	3,113	3,318	3,445
Other Africa	1,217	1,410	1,565	1,875	1,963	2,631	3,170	2,815	3,380	3,491	3,517	3,880	4,137	3,831	4,491	4,749	5,334	5,605
Asia	132,031	148,563	173,140	181,215	191,153	225,299	248,464	264,193	329,339	403,050	403,099	415,567	418,983	434,849	443,292	476,408	532,450	528,659

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China	36,714	43,679	56,156	62,765	74,288	100,067	120,194	127,064	163,643	214,757	221,443	242,156	250,309	256,040	246,983	273,074	325,928	326,874
India	5,271	6,011	7,072	8,074	8,931	11,716	12,827	13,305	15,775	21,689	16,721	15,908	15,614	21,114	20,259	22,730	25,538	29,263
Indonesia	1,730	2,453	1,819	2,646	4,348	6,000	7,728	7,355	8,976	12,350	13,473	17,468	17,783	16,159	16,465	17,930	16,120	17,636
Japan	62,074	67,330	70,768	67,471	62,539	62,250	67,269	74,750	85,703	89,862	89,763	74,365	68,057	70,366	82,954	80,251	78,682	76,153
Malaysia	2,101	2,656	3,586	3,749	4,975	4,655	5,283	4,407	5,847	6,194	6,542	6,202	5,862	6,143	6,154	6,164	7,343	7,404
Philippines	619	605	660	614	706	702	684	746	671	1,010	1,120	785	720	708	885	914	946	904
Singapore	1,646	1,893	2,748	2,576	2,476	3,377	1,502	2,409	3,470	3,985	2,640	4,156	4,436	5,814	8,969	8,828	9,358	9,380
South Korea	12,686	13,852	17,076	18,878	19,811	22,508	20,652	19,119	24,879	32,449	32,232	33,706	34,393	33,674	34,189	35,966	36,767	30,636
Taiwan	6,564	6,880	9,302	9,816	7,242	8,564	5,894	7,884	12,346	11,567	9,467	10,454	10,790	13,105	14,379	17,442	17,971	16,170
Thailand	899	1,062	1,124	1,210	1,343	1,600	1,990	2,119	2,842	3,479	3,913	4,294	4,674	5,050	5,391	5,954	6,473	6,889
Vietnam	320	353	432	542	699	826	1,157	1,891	1,534	1,466	1,673	1,821	1,922	2,210	2,347	2,478	2,853	3,089
Other Asia	1,405	1,790	2,398	2,873	3,794	3,034	3,285	3,142	3,652	4,243	4,111	4,252	4,422	4,465	4,317	4,677	4,473	4,261
Oceania	2,196	2,893	3,508	3,562	3,437	4,671	5,140	5,164	6,074	6,552	6,163	6,478	6,402	5,266	4,716	4,937	4,760	4,128
Australia	1,716	2,414	2,929	2,945	2,887	4,074	4,716	4,632	5,503	5,970	5,470	5,590	5,639	4,555	3,924	4,110	3,980	3,385
New Zealand	479	479	579	617	550	597	425	532	571	582	693	887	763	711	792	828	779	743

EU = European Union.

Note(s):

Value added is the amount contributed by a country, an industry, or other entity to the value of a good or service and excludes purchases of domestic and imported materials and inputs. Detail may not add to total because of rounding. The world total and regional totals do not include all countries and economies due to limitations in data availability. See Table SKTI-4 for a full list of countries and economies in each region for which data are available. China includes Hong Kong. The EU total excludes the United Kingdom (UK) to reflect the new EU country composition following the UK's withdrawal on 1 February 2020. In order to maintain consistency over time, the EU aggregate excludes the UK for the entire time series.

Source(s):

U.S. Bureau of Economic Analysis, Value Added by Industry, accessed 5 October 2021; IHS Markit, special tabulations (2021) of the Comparative Industry Service.

Science and Engineering Indicators