

APPENDIX TABLE 6-40

Exports and imports of chemicals excluding pharmaceuticals, by region, country, or economy: 2001-16

(Millions of current dollars)

Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Exports																
World	367,035	391,896	461,229	568,383	645,490	728,310	869,222	1,028,505	817,414	1,055,252	1,292,854	1,271,036	1,280,032	1,276,684	1,198,250	1,185,477
North America	56,498	56,298	62,188	73,926	78,800	89,301	108,017	123,690	97,661	123,835	142,885	137,636	136,174	134,333	126,080	119,971
Canada	2,697	2,800	3,040	4,162	5,162	5,774	8,818	9,156	5,792	7,709	9,895	9,161	8,794	7,670	7,447	6,708
Mexico	2,910	2,714	2,912	3,391	3,804	4,150	5,040	6,531	5,528	7,017	8,718	9,328	9,446	8,817	7,769	7,557
United States	50,891	50,783	56,236	66,373	69,834	79,377	94,160	108,003	86,341	109,109	124,272	119,146	117,934	117,846	110,864	105,706
Central and South America	13,307	13,019	15,438	19,677	24,676	28,347	32,655	41,474	31,882	38,396	47,615	48,711	45,118	42,216	37,414	35,689
Brazil	4,145	4,385	5,594	7,109	8,931	11,069	12,860	14,838	12,302	14,271	17,333	17,780	16,449	14,762	12,778	12,748
Central America	2,454	2,217	3,049	3,820	4,898	5,464	7,025	9,104	6,033	7,682	9,530	9,373	8,939	8,876	8,072	6,792
All others	6,708	6,417	6,794	8,748	10,847	11,813	12,770	17,531	13,547	16,444	20,752	21,558	19,730	18,578	16,565	16,149
Europe																
EU	105,567	112,672	131,326	155,617	169,293	185,722	216,001	240,657	191,320	221,415	255,522	251,991	259,105	256,873	227,797	221,937
France	12,291	12,845	15,209	17,535	19,049	20,491	23,141	26,501	20,907	24,457	28,742	28,090	29,233	29,470	25,939	25,351
Germany	28,037	30,550	35,336	43,564	47,891	54,469	64,484	74,210	51,185	60,581	70,093	69,865	72,175	71,721	61,689	59,379
United Kingdom	11,319	12,091	12,990	15,327	16,179	18,401	19,922	20,844	19,293	20,363	21,879	21,420	19,635	20,166	21,678	17,997
All others	53,919	57,186	67,791	79,191	86,173	92,361	108,454	119,102	99,936	116,014	134,809	132,616	138,062	135,516	118,491	119,210



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Other Europe	30,610	32,151	38,684	49,164	55,521	62,119	75,828	96,747	69,417	85,704	107,887	105,125	102,427	101,744	91,480	92,487
Russia	8,671	8,587	10,616	14,125	16,163	17,524	22,383	32,032	19,300	25,536	33,821	33,165	31,695	29,599	25,343	23,580
Switzerland	12,992	14,616	16,893	19,877	21,403	23,036	25,671	28,136	23,940	26,717	30,590	28,172	28,860	30,713	28,128	32,492
Turkey	2,354	2,645	3,383	4,445	5,302	6,431	8,240	9,953	8,353	10,610	13,234	13,802	14,975	15,812	15,056	14,493
All others	6,594	6,303	7,791	10,717	12,653	15,127	19,535	26,627	17,824	22,841	30,242	29,985	26,896	25,620	22,953	21,922
Middle East	16,160	18,178	19,880	27,022	33,493	35,260	43,937	66,463	50,474	78,192	105,842	102,930	106,698	98,773	105,365	107,442
Israel	4,057	4,374	5,072	5,754	6,180	6,262	7,446	11,887	8,765	10,194	12,712	11,760	11,727	11,447	10,699	10,360
All others	12,104	13,804	14,807	21,268	27,313	28,998	36,491	54,577	41,710	67,998	93,131	91,170	94,971	87,326	94,666	97,082
Africa	7,308	7,645	8,973	10,668	12,504	14,808	17,011	28,906	18,725	24,454	30,275	31,619	29,861	28,291	28,550	27,785
Asia																
China	21,989	25,241	31,389	41,862	54,774	68,523	89,612	113,884	91,361	124,730	164,487	167,094	176,219	194,199	193,355	198,288
India	5,096	6,001	7,597	9,398	11,701	14,280	17,126	20,868	17,337	22,885	30,289	31,808	33,758	33,758	31,272	31,302
Indonesia	5,179	5,646	6,892	8,686	9,848	12,493	15,046	17,379	12,647	20,310	29,999	24,978	23,645	22,284	22,184	22,172
Japan	40,736	43,834	50,662	61,453	67,900	73,658	83,322	88,010	76,266	97,634	107,885	102,411	98,073	93,506	80,553	79,300
Malaysia	6,045	6,827	8,549	11,013	12,477	14,313	16,585	19,717	15,083	21,057	26,841	25,054	24,660	24,228	21,497	20,380
Philippines	631	660	758	897	1,072	1,399	1,807	2,166	1,864	2,676	3,175	2,817	3,248	2,627	2,506	2,661
Singapore	9,817	11,961	16,415	20,534	22,356	24,998	29,806	29,834	25,984	35,687	42,039	44,456	41,394	45,744	41,207	39,100
South Korea	16,939	18,272	22,229	29,342	34,561	38,847	45,446	51,575	44,840	59,091	74,090	74,874	79,250	79,861	69,699	64,287
Taiwan	16,451	18,067	20,860	25,628	29,173	31,380	37,844	41,297	34,389	46,367	52,069	49,795	50,880	49,892	52,934	54,012



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Thailand	7,668	8,492	10,883	14,222	16,778	20,704	23,705	27,875	23,465	34,293	47,115	43,827	44,476	42,816	41,569	42,528
Vietnam	550	734	943	1,143	1,419	2,141	2,674	3,536	3,083	4,827	6,916	8,178	8,102	8,583	8,973	9,937
All others	802	853	1,135	1,300	1,763	1,735	1,952	2,474	2,113	2,988	3,795	4,087	3,638	3,638	3,416	3,478
Australia	2,528	2,455	2,935	3,388	3,554	3,696	4,911	4,992	4,318	4,855	5,685	5,808	5,380	4,931	4,655	5,139
All others	3,152	2,891	3,492	3,444	3,828	4,588	5,936	6,961	5,183	5,857	8,444	7,837	7,926	8,386	7,742	7,580
Imports																
World	367,035	391,896	461,229	568,383	645,490	728,310	869,222	1,028,505	817,414	1,055,252	1,292,854	1,271,036	1,280,032	1,276,684	1,198,250	1,185,477
North America	69,502	72,677	83,287	95,491	107,505	117,832	126,920	143,337	111,048	135,435	160,960	164,090	164,032	168,904	164,914	161,057
Canada	4,689	5,126	5,969	7,291	8,419	9,652	10,853	11,847	9,346	11,675	13,266	13,695	13,829	13,607	13,032	13,221
Mexico	4,310	4,590	5,122	5,999	7,259	8,101	9,377	10,971	8,805	11,323	13,768	14,521	14,693	16,433	16,292	16,018
United States	60,502	62,961	72,195	82,201	91,827	100,078	106,689	120,518	92,897	112,436	133,925	135,873	135,509	138,864	135,590	131,818
Central and South America	29,804	27,318	30,169	38,493	43,750	50,743	64,452	88,458	64,609	84,437	108,702	112,719	112,766	108,519	95,622	85,858
Brazil	9,436	8,817	9,914	13,164	13,808	15,817	22,045	32,650	22,690	30,648	40,693	40,212	42,980	41,823	34,398	28,871
Central America	6,187	5,904	6,313	7,059	8,483	9,660	11,272	14,160	11,170	13,779	17,209	19,551	17,757	17,602	16,931	17,008
All others	14,181	12,597	13,942	18,270	21,459	25,267	31,136	41,648	30,749	40,011	50,799	52,956	52,029	49,094	44,293	39,979
Europe																
EU	62,095	65,243	80,623	95,606	106,848	122,646	151,938	169,874	127,465	159,608	199,622	187,393	182,368	187,433	173,344	173,870
France	8,244	8,523	10,666	11,800	13,977	14,907	18,330	18,868	15,690	18,666	21,625	20,612	19,290	19,010	17,098	17,190
Germany	11,466	12,180	14,854	18,154	19,955	23,901	30,575	33,986	26,652	33,211	41,220	38,788	40,039	42,432	41,522	43,043



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
United Kingdom	9,120	9,643	11,705	14,186	15,204	16,921	20,528	18,287	14,607	17,926	21,498	20,051	17,806	17,604	16,477	16,375
All others	33,265	34,896	43,398	51,466	57,712	66,917	82,505	98,733	70,516	89,805	115,279	107,942	105,234	108,387	98,247	97,262
Other Europe	30,203	34,269	41,517	53,936	61,710	71,973	90,753	106,124	80,467	100,974	126,429	128,567	134,948	126,423	107,809	108,484
Russia	5,681	6,197	7,935	10,115	12,751	16,265	21,426	25,252	17,037	22,323	29,259	31,037	31,633	30,233	21,882	21,389
Switzerland	10,704	11,162	12,431	14,153	15,678	16,127	19,881	20,749	18,004	21,096	24,044	24,302	25,791	26,799	21,944	21,230
Turkey	5,424	7,072	9,467	12,886	15,244	17,788	22,075	24,325	18,904	25,262	32,568	31,608	34,209	34,055	32,175	32,749
All others	8,393	9,838	11,684	16,782	18,037	21,792	27,371	35,798	26,521	32,293	40,558	41,620	43,315	35,336	31,808	33,116
Middle East	14,860	16,549	18,994	22,708	27,620	28,929	37,571	44,107	36,746	47,440	54,449	53,682	55,824	58,904	58,074	59,517
Israel	2,606	2,637	3,172	3,751	4,163	4,804	5,619	6,431	4,952	6,075	7,058	7,139	7,361	7,248	6,909	7,426
All others	12,255	13,912	15,821	18,956	23,457	24,125	31,952	37,676	31,794	41,365	47,391	46,543	48,464	51,656	51,165	52,091
Africa	14,327	15,369	17,679	21,731	24,516	28,988	35,818	46,160	41,559	48,475	58,293	59,921	66,113	65,697	65,943	64,627
Asia																
China	40,929	48,849	59,801	77,585	90,049	102,283	120,936	129,182	123,037	166,081	198,811	189,841	197,513	192,414	184,586	180,423
India	6,055	6,385	8,096	10,719	14,794	17,128	22,769	36,835	29,472	39,676	48,680	48,743	46,170	48,818	45,211	43,286
Indonesia	5,933	5,939	6,178	8,306	8,954	9,668	11,147	17,340	13,055	18,167	24,258	26,009	25,431	25,601	24,204	22,921
Japan	22,844	23,281	26,942	32,318	35,969	39,933	43,732	52,233	40,822	52,705	65,402	59,923	53,954	53,394	47,579	47,497
Malaysia	5,411	5,932	6,536	8,581	9,135	10,549	12,271	14,783	11,998	16,586	20,070	20,618	21,442	21,519	19,498	19,753
Philippines	3,355	3,359	3,704	4,350	4,440	4,848	5,431	6,606	5,552	7,288	8,487	8,528	8,425	9,198	9,324	10,704
Singapore	7,047	7,678	8,949	11,284	12,532	14,214	15,584	17,421	14,435	21,012	25,840	26,275	25,783	25,433	22,870	22,752



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
South Korea	13,197	14,572	17,232	22,145	25,715	28,931	33,786	38,367	32,053	43,172	51,315	48,420	47,952	47,292	42,682	44,013
Taiwan	11,672	13,072	15,092	20,052	21,407	24,166	27,382	28,422	23,479	33,996	39,658	35,964	34,580	33,916	30,471	32,036
Thailand	6,353	7,012	8,226	10,619	11,865	13,268	15,566	19,307	14,170	20,161	24,591	25,615	24,781	24,058	23,486	23,509
Vietnam	2,508	3,028	3,702	4,963	5,626	6,819	8,763	10,520	10,713	13,829	17,346	17,601	19,959	21,596	24,401	25,653
All others	4,658	4,736	5,708	7,137	9,033	9,161	11,439	14,010	12,602	16,579	20,971	20,114	21,333	22,777	23,710	25,142
Australia	7,093	7,197	8,270	9,976	10,831	12,046	13,987	17,541	13,595	16,235	19,973	20,538	19,315	19,634	18,337	17,888
All others	9,190	9,432	10,525	12,383	13,189	14,187	18,979	27,879	10,537	13,397	18,999	16,475	17,342	15,152	16,185	16,486

EU = European Union.

Note(s)

Data are not available for EU member Luxembourg. China includes Hong Kong. Detail may not add to total because of rounding. See Appendix Table 6-38 for a full list of countries and economies in each region.

Source(s)

IHS Global Insight, special tabulations (2017) of the World Trade Service database.

Science and Engineering Indicators 2018