

Table SINV-62

USPTO utility patents granted in food chemistry, by region, country, or economy: 1998–2020

(Number)

Region, country, or economy	Economy by income status	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	na	946	1,236	1,225	1,170	1,053	948	933	699	824	850	763	887	1,133	1,219	1,572	1,828	1,831	1,749	1,744	1,793	1,722	2,061	2,108
North America	na	647	810	820	778	653	594	597	478	592	636	578	698	801	869	1,150	1,324	1,261	1,203	1,192	1,218	1,194	1,392	1,386
Canada	High	21	27	25	31	23	33	22	23	22	26	29	33	55	62	59	98	90	92	63	76	94	94	78
Mexico	Upper middle	1	3	1	4	3	1	1	3	1	1	2	1	3	2	4	5	4	8	6	9	5	8	8
United States	High	624	780	794	743	627	561	573	451	569	609	547	663	744	805	1,086	1,221	1,168	1,103	1,122	1,134	1,096	1,289	1,300
Central America and Caribbean	na	2	1	2	0	1	0	1	1	0	1	0	2	1	0	1	1	1	2	1	0	0	1	1
Puerto Rico	High	1	0	1	0	1	0	1	0	0	0	0	2	0	0	0	1	0	1	1	0	0	0	0
South America	na	5	4	8	3	5	4	4	4	4	10	8	7	13	6	3	12	30	8	11	12	6	12	13
Argentina	Upper middle	3	1	3	0	2	1	1	2	2	5	5	6	1	2	1	3	0	1	2	6	2	3	3
Brazil	Upper middle	0	1	5	1	2	0	3	3	2	4	2	1	10	2	1	3	22	2	5	3	2	5	5
Europe	na	179	267	230	238	232	206	189	138	114	118	100	101	185	196	246	305	346	354	343	351	317	392	435
EU-27 + UK ^a	na	157	231	197	203	201	179	167	124	99	107	94	95	163	182	223	277	310	313	303	310	279	356	387
United Kingdom	High	24	34	29	27	34	36	27	15	14	16	11	10	19	22	28	18	27	27	24	33	25	29	32
EU-27 ^b	na	132	196	168	177	167	143	140	110	85	91	83	85	144	160	196	259	284	285	279	277	254	328	355
Austria	High	3	3	4	6	2	2	8	2	3	5	3	5	5	8	4	9	9	5	5	3	2	3	4
Belgium	High	3	7	8	6	3	6	5	2	7	5	6	3	5	7	11	13	13	11	11	8	11	15	11
Denmark	High	13	24	28	15	21	19	8	15	13	13	11	9	24	19	25	23	22	20	24	24	17	21	30
Finland	High	6	9	8	7	8	7	11	5	6	1	1	2	5	2	5	8	3	8	3	4	9	3	7
France	High	25	38	19	27	31	35	22	22	15	13	13	10	26	21	30	43	48	48	41	44	34	41	53
Germany	High	34	45	35	49	42	29	45	27	16	20	17	21	24	29	41	48	48	50	51	44	44	55	63
Hungary	High	1	0	0	2	1	0	0	0	0	0	0	1	0	1	0	1	1	4	7	4	1	1	4
Ireland	High	1	0	1	2	1	3	1	1	0	1	1	1	0	1	0	1	4	6	2	2	2	3	4
Italy	High	11	16	15	22	8	11	12	9	6	9	10	10	12	8	19	18	22	21	30	25	30	35	44
Netherlands	High	24	37	34	24	31	21	21	17	13	17	11	15	30	57	41	72	87	88	83	92	83	127	110
Spain	High	2	8	3	6	8	3	3	5	3	3	4	5	8	3	4	9	10	12	12	14	12	14	12
Sweden	High	9	9	12	11	11	8	5	4	3	3	3	2	5	2	3	6	8	7	5	5	4	6	8
Other Europe	na	22	36	33	35	31	27	22	14	15	11	6	6	22	14	23	28	36	41	39	41	38	36	48
Other Europe-2020 ^b	na	46	71	62	62	65	63	49	29	29	27	17	17	41	36	51	46	63	69	63	74	63	64	80
Belarus	Upper middle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Moldova	Lower middle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norway	High	1	3	2	2	8	4	5	2	3	0	1	1	7	1	2	3	7	6	5	5	6	4	7
Russia	Upper middle	0	1	0	0	3	0	3	2	1	0	1	1	3	2	4	1	2	3	1	2	2	1	1
Switzerland	High	21	32	30	30	16	21	14	10	10	11	4	4	11	10	16	23	27	30	34	31	28	27	36
Ukraine	Lower middle	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Asia	na	99	135	136	122	134	121	125	67	90	74	73	60	106	122	151	160	163	153	159	166	158	219	229

Table SINV-62

USPTO utility patents granted in food chemistry, by region, country, or economy: 1998–2020

(Number)

Region, country, or economy	Economy by income status	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
China	Upper middle	3	1	4	5	5	3	4	2	2	5	3	1	3	6	10	10	15	21	23	27	26	42	48
India	Lower middle	1	2	2	5	9	11	10	7	9	8	11	6	2	9	5	4	7	5	10	7	8	10	13
Japan	High	80	115	114	97	102	92	94	46	64	48	48	42	81	82	92	99	98	98	86	89	76	106	92
Malaysia	Upper middle	0	1	0	1	0	0	1	0	1	1	0	1	3	1	16	13	3	1	1	2	1	2	2
Singapore	High	3	2	1	1	2	1	1	1	1	1	1	0	0	1	3	1	5	1	1	2	1	2	1
South Korea	High	7	11	6	10	11	11	11	8	9	4	7	9	15	18	20	23	24	19	29	29	36	41	57
Taiwan	High	5	2	8	5	2	4	4	3	3	5	3	1	2	5	4	10	9	7	6	9	7	14	11
Middle East	na	5	4	11	7	8	8	5	3	5	4	1	2	7	7	4	12	14	15	19	21	25	22	24
Israel	High	5	4	11	6	8	8	5	3	5	4	1	2	7	5	4	9	11	13	16	15	18	16	20
Africa	na	0	3	5	3	3	3	3	0	1	1	1	1	2	2	3	2	1	1	3	2	3	2	1
South Africa	Upper middle	0	3	4	2	3	2	3	0	1	1	1	1	2	1	3	2	1	1	3	2	2	1	1
Australia and Oceania	na	10	12	14	19	16	12	9	7	18	7	2	16	19	17	12	12	16	14	17	22	19	20	18
Australia	High	8	11	8	14	11	7	7	4	14	5	1	10	14	14	9	8	13	13	11	18	16	17	14
New Zealand	High	2	1	6	5	5	5	2	3	4	2	1	7	5	3	3	3	2	2	6	4	3	3	4
Unclassified	na	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

na = not applicable, metric not calculated at this level.

EU = European Union; UK = United Kingdom; USPTO = U.S. Patent and Trademark Office.

^a The United Kingdom was a part of the EU for data purposes from 1973 to 2019.^b Beginning in 2020, the United Kingdom was no longer a member of the EU.**Note(s):**

USPTO patents are allocated according to patent inventorship information. USPTO patents are fractionally allocated among regions, countries, or economies based on the proportion of residences of all named inventors. Patents are classified under the World Intellectual Property Organization (WIPO) classification of patents, which classifies International Patent Classification (IPC) codes under 35 technical fields. IPC reformed codes take into account changes that were made to the WIPO classification in 2006 under the eighth version of the classification and were used to prepare these data. However, because PatentsView only provides the original IPC codes as they appeared on patents and not the IPC reformed codes, current Cooperative Patent Classification codes on patents were converted back to the most recent IPC classification to prepare these statistics. Fractional counts of patents were assigned to each technological field on patents to assign the proper weight of a patent to the corresponding technological fields under the classification. China includes Hong Kong.

Source(s):

National Center for Science and Engineering Statistics; Science-Metrix; PatentsView, USPTO, accessed June 2021.

Science and Engineering Indicators