

**American Chemical Society
Demographics Report**

D516 - Industrial & Engineering Chemistry Division**As of 31 - Dec - 2019**

Member Type	Group		Age Group			Years Of Service		
	Count	%	Count	%	Group	Count	%	
Group	Count	%	11-20	69	2.75	0	9	0.36
Division Affiliate	2	0.08	21-25	259	10.33	1	949	37.85
Emeritus Member	136	5.42	26-30	226	9.01	2	182	7.26
Regular Member	1,554	61.99	31-35	201	8.02	3	171	6.82
Regular Student Member	380	15.16	36-40	159	6.34	4	167	6.66
Retired Member	49	1.95	41-45	147	5.86	5	66	2.63
Society Affiliate	52	2.07	46-50	122	4.87	6-10	415	16.55
Student Member - UnderGrad	334	13.32	51-55	139	5.54	11-15	184	7.34
Total	2,507	100.00	56	35	1.40	16-20	98	3.91
			57	43	1.72	21-25	77	3.07
			58	44	1.76	26-30	38	1.52
			59	48	1.91	31-35	58	2.31
			60	38	1.52	36-40	45	1.79
			61	42	1.68	41-45	18	0.72
			62	52	2.07	46-50	30	1.20
			63	38	1.52	Total	2,507	100.00
			64	32	1.28			
			65	24	0.96	Group	Count	%
			66	26	1.04	No	674	26.88
			67	24	0.96	Yes	67	2.67
			68	27	1.08	No Response	48	1.91
			69	14	0.56	N/A	1,718	68.53
			70	22	0.88	Total	2,507	100.00
			71+	235	9.37			
			N/A	441	17.59	Ethnic Background		
			Total	2,507	100.00	Group	Count	%
						African Descent or Black	54	2.14
						Asian (Including Pacific Islanders)	170	6.73
			Group	Count	%	Native American (including Alaskan Native)	13	0.51
			Female	534	21.30	White (Caucasian)	858	33.95
			Male	1,659	66.17	Other	38	1.50
			n/a	314	12.52	No Response	5	0.20
			Total	2,507	100.00	N/A	1,389	54.97
						Total	2,527	100.00

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Highest Degree Received			Field of Research			Industry		
Group	Count	%	Group	Count	%	Group	Count	%
Associate	28	1.12	Agriculture/Food science	9	0.36	Academic Institution	800	31.91
Bachelor	221	8.82	Analytical Chemistry	40	1.60	Engineering/Construction Firm	81	3.23
Doctorate	484	19.31	Applied Chemistry	48	1.91	Government	99	3.95
High School	44	1.76	Biochemistry/Molecular Biology/Biomaterials	9	0.36	Hospital/Clinic	4	0.16
Master	164	6.54	Biotechnology/Applied Microbiology	14	0.56	Independent Consulting	109	4.35
N/A	1,566	62.47	Chemical Information	5	0.20	Independent Laboratory	59	2.35
Total	2,507	100.00	Combinatorial Chemistry	1	0.04	Manufacturer - Industrial chemicals	228	9.09
Degree Discipline			Computational/computers/informatics	5	0.20	Manufacturer - Other	252	10.05
Group	Count	%	Education	9	0.36	Manufacturer - Petrochemical	86	3.43
Agricultural/food chemistry	5	0.20	Energy/Petroleum	71	2.83	Manufacturer - Pharmaceutical Co	88	3.51
Analytical chemistry	32	1.28	Engineering	100	3.99	Manufacturer-Agricultural	18	0.72
Biochemistry	23	0.92	Environmental Science	35	1.40	Manufacturer-Biotech/life sciences co	39	1.56
Biotechnology	7	0.28	Forensic	1	0.04	Manufacturer-Environmental/water	22	0.88
Business administration	24	0.96	Green Chemistry/Sustainable Chemistry	36	1.44	Manufacturer-Food/beverage/flavors	20	0.80
Chemical education	4	0.16	Health & safety	8	0.32	Public Utility/Transportation	10	0.40
Chemical engineering	257	10.25	Inorganic chemistry	49	1.95	Retail/Wholesale Trade	21	0.84
Clinical chemistry	3	0.12	Instrumentation design/development	2	0.08	Other	126	5.03
Computer science	2	0.08	Legal	5	0.20	No Response	390	15.56
Environmental chemistry	13	0.52	Materials science	85	3.39	N/A	55	2.19
General chemistry	108	4.31	Medicinal/clinical	8	0.32	Total	2,507	100.00
Inorganic chemistry	89	3.55	Organic chemistry	46	1.83			
Law	4	0.16	Paints/coatings	20	0.80			
Materials science	28	1.12	Pharmaceutical	35	1.40			
Medicinal/pharmaceutical chemistry	9	0.36	Physical chemistry	28	1.12			
Organic chemistry	93	3.71	Plastics/Polymers/Rubber	43	1.72			
Other chemical sciences	8	0.32	Toxicology	3	0.12			
Physical chemistry	53	2.11	Other	114	4.55			
Polymer chemistry	22	0.88	N/A	1,678	66.93			
Other	92	3.67	Total	2,507	100.00			
N/A	1,631	65.06						
Total	2,507	100.00						

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Job Title			Department			Benefits		
Group	Count	%	Group	Count	%	Group	Count	%
Chemical Technician	28	1.12	Analysis	11	0.44	ACS Network	832	21.24
Chemist/Scientist	383	15.28	Corporate Management	35	1.40	C&EN	548	13.99
Consultant/Advisor	72	2.87	Lab Management	11	0.44	Career counseling and resources	54	1.38
Engineer	198	7.90	Purchasing	1	0.04	Community activities	71	1.81
Executive Management	155	6.18	QC/Assurance/Validation	18	0.72	Educational resources and tools	56	1.43
Graduate Student	230	9.17	Regulatory	13	0.52	Legislative Action Network	28	0.71
Health & Safety/Regulatory Affairs Manager	13	0.52	Research & Development (R&D)	302	12.05	Local Sections	155	3.96
Post Doctoral/Fellow Researcher	55	2.19	Research & Teaching	103	4.11	National or Regional Meetings	187	4.77
Process/Quality Control Manager	32	1.28	Sales/Marketing/Business Development	20	0.80	Newsletters	236	6.03
Production/Operations Manager	18	0.72	Teaching	50	1.99	None	157	4.01
Professor/Instructor/Administrator	346	13.80	Technical Services	73	2.91	Personal Benefits	59	1.51
Purchasing Manager/Buyer	2	0.08	Other	63	2.51	Professional Education and Professional Development	60	1.53
Research & Development Management	188	7.50	N/A	1,807	72.08	Publication Benefits	12	0.31
Retired, no longer working	1	0.04	Total	2,507	100.00	SciFinder	22	0.56
Sales/Marketing/Business Development	44	1.76	Geographic Area			Technical Divisions	190	4.85
Supervisor/Project Leader/Foreman	38	1.52	Group	Count	%	Web Edition publications	217	5.54
Undergraduate Student Member	157	6.26	International	672	26.80	Other	21	0.54
Other	100	3.99	United States	1,835	73.20	N/A	1,012	25.84
No Response	385	15.36	Total	2,507	100.00	Total	3,917	100.00
N/A	62	2.47	Disability					
Total	2,507	100.00	Group	Count	%			
			No	747	29.80			
			Yes	18	0.72			
			No Response	20	0.80			
			N/A	1,722	68.69			
			Total	2,507	100.00			

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Products			Country of Citizenship		
Group	Count	%	Group	Count	%
Chemical ingredients	345	9.63	Finland	1	0.04
Chromatography products	143	3.99	France	4	0.16
Computational	67	1.87	Georgia	1	0.04
Contract management services	59	1.65	Germany	8	0.32
HPLC	78	2.18	Ghana	1	0.04
Laboratory products	307	8.57	Guyana	1	0.04
LIMS	17	0.47	India	23	0.92
Mass Spectrometers	81	2.26	Indonesia	2	0.08
NMR	45	1.26	Iran	3	0.12
None	187	5.22	Ireland	1	0.04
Pharmaceutical ingredients	31	0.87	Israel	2	0.08
Spectroscopy	110	3.07	Italy	19	0.76
Supercritical fluid chromatography	15	0.42	Jamaica	2	0.08
Thermal analyzers	77	2.15	Japan	14	0.56
Water purification systems	91	2.54	Jordan	1	0.04
Other	58	1.62	Kuwait	1	0.04
N/A	1,871	52.23	Luxembourg	1	0.04
Total	3,582	100.00	Malaysia	2	0.08
			Mexico	9	0.36
			Netherlands	7	0.28
			New Zealand	2	0.08
			Nigeria	8	0.32
			Norway	2	0.08
			Peru	2	0.08
			Poland	3	0.12
			Portugal	1	0.04
			Romania	5	0.20
			Russia	3	0.12
			Rwanda	1	0.04
			Saudi Arabia	2	0.08
			Singapore	2	0.08
			Slovenia	1	0.04
			South Africa	3	0.12
			South Korea	2	0.08
			Spain	12	0.48
			Sri Lanka	2	0.08
			Sweden	1	0.04
			Switzerland	6	0.24
			Taiwan	4	0.16
			Thailand	2	0.08
			Turkey	2	0.08
			Ukraine	1	0.04
			United Arab Emirates	1	0.04
			United Kingdom	13	0.52
			UNITED STATES	514	20.50
			Vietnam	3	0.12
			Zimbabwe	1	0.04
			N/A	1,723	68.73
			Total	2,507	100.00