

**American Chemical Society  
Division of Chemical Education**

**Composite Norms**

**General-Organic-Biochemistry Exam 2000**

***General Chemistry Sub-Test - based on scores from 740  
students at 12 colleges***

Scroll down to view the Organic and the Biochemistry Sub-Test.

<u>Score</u>	<u>Percentile</u>	<u>Score</u>	<u>Percentile</u>	<u>Score</u>	<u>Percentile</u>		
60	100	40	85	20	9		
59	100	39	82	19	7		
58	100	38	80	18	5		
57	100	37	75	17	4		
56	100	36	71	16	2		
55	100	35	68	15	1		
54	100	34	65	14	1		
53	100	33	61	13	1		
52	100	32	55	12	0		
51	99	31	49	11	0		
50	99	30	44	10	0		
49	98	29	39	9	0		
48	97	28	35	8	0		
47	96	27	32	7	0		
46	95	26	27	6	0		
45	94	25	23	5	0	Mean	31.34
44	93	24	20	4	0	Std deviation	8.24
43	91	23	16	3	0	Median	30.64
42	89	22	13	2	0	KR21 rel	0.79
41	87	21	11	1	0	Std error/meas	3.75

***Organic Chemistry Sub-Test - based on scores from 608  
students at 9 colleges***

<u>Score</u>	<u>Percentile</u>	<u>Score</u>	<u>Percentile</u>	<u>Score</u>	<u>Percentile</u>		
60	100	40	83	20	16		
59	100	39	80	19	11		
58	100	38	77	18	8		
57	100	37	75	17	6		
56	100	36	73	16	4		
55	100	35	70	15	2		
54	100	34	67	14	1		
53	100	33	64	13	1		
52	99	32	61	12	1		
51	99	31	57	11	0		
50	98	30	54	10	0		
49	97	29	50	9	0		
48	96	28	46	8	0		
47	94	27	42	7	0		
46	93	26	38	6	0		
45	92	25	34	5	0	Mean	30.06
44	90	24	31	4	0	Std deviation	9.48
43	89	23	27	3	0	Median	28.52
42	87	22	22	2	0	KR21 rel	0.85

42	87	22	23	2	0	KR21 rel	0.83
41	86	21	19	1	0	Std error/meas	3.71

***Biochemistry Sub-Test - based on scores from 316 students at 8 colleges***

<u>Score</u>	<u>Percentile</u>	<u>Score</u>	<u>Percentile</u>	<u>Score</u>	<u>Percentile</u>		
60	100	40	84	20	11		
59	100	39	82	19	8		
58	100	38	79	18	4		
57	100	37	77	17	3		
56	99	36	74	16	1		
55	99	35	69	15	1		
54	99	34	65	14	1		
53	98	33	62	13	1		
52	98	32	58	12	0		
51	97	31	53	11	0		
50	96	30	49	10	0		
49	95	29	45	9	0		
48	95	28	41	8	0		
47	94	27	37	7	0		
46	94	26	33	6	0		
45	93	25	29	5	0	Mean	31.02
44	91	24	24	4	0	Std deviation	9.04
43	89	23	20	3	0	Median	29.83
42	88	22	16	2	0	KR21 rel	0.83
41	85	21	13	1	0	Std error/meas	3.72