

**American Chemical Society Division of Chemical Education  
Composite Norms – General Chemistry First Term Form 2012**

Score . . . . .	Percentile	Score . . . . .	Percentile	Score . . . . .	Percentile
70	100	45	67	20	7
69	100	44	65	19	5
68	100	43	62	18	4
67	100	42	59	17	3
66	100	41	57	16	2
65	99	40	54	15	1
64	99	39	51	14	1
63	98	38	49	13	0
62	98	37	46	12	0
61	97	36	43	11	0
60	96	35	41	10	0
59	95	34	38	9	0
58	94	33	36	8	0
57	92	32	33	7	0
56	91	31	31	6	0
55	89	30	28	5	0
54	87	29	26	4	0
53	85	28	24	3	0
52	83	27	21	2	0
51	81	26	19	1	0
50	79	25	17	Mean	38.60
49	77	24	14	Std. deviation	12.48
48	74	23	12	Median	38.1
47	72	22	10	KR-21 reliability	0.90
46	70	21	8	Std error/meas	3.91

**Based on the scores of 8969 students in 34 colleges.**