

**American Chemical Society**  
**Division of Chemical Education**  
**Composite Norms**  
**High School Chemistry Exam 2009**

Score	Percentile	Score	Percentile	Score	Percentile
80	100	51	52	22	2
79	100	50	49	21	1
78	100	49	47	20	1
77	99	48	44	19	1
76	99	47	42	18	0
75	98	46	40	17	0
74	98	45	38	16	0
73	97	44	36	15	0
72	96	43	34	14	0
71	95	42	31	13	0
70	94	41	29	12	0
69	92	40	27	11	0
68	90	39	25	10	0
67	89	38	23	9	0
66	87	37	21	8	0
65	85	36	19	7	0
64	83	35	18	6	0
63	81	34	16	5	0
62	79	33	14	4	0
61	76	32	12	3	0
60	74	31	11	2	0
59	72	30	9	1	0
58	70	29	8	0	0
57	67	28	7		
56	64	27	6		
55	62	26	6		
54	59	25	5		
53	56	24	4		
52	54	23	3		

Mean	49.55
Std deviation	13.91
Median	49.9
KR-21 rel	0.91
Std error/meas	4.08