

**American Chemical Society Division of Chemical Education
Composite Norms – 2019 High School Chemistry Exam (HS19)**

Score	Percentile	Score	Percentile	Score	Percentile	Score	Percentile
80	100	55	68	30	20	5	0
79	100	54	65	29	18	4	0
78	100	53	63	28	16	3	0
77	100	52	61	27	14	2	0
76	100	51	60	26	13	1	0
75	99	50	59	25	11	0	0
74	98	49	56	24	10		
73	98	48	54	23	8		
72	97	47	52	22	6		
71	95	46	49	21	5		
70	94	45	47	20	4		
69	93	44	47	19	3		
68	91	43	44	18	2		
67	89	42	43	17	1		
66	86	41	40	16	1		
65	84	40	38	15	1		
64	83	39	35	14	0		
63	82	38	34	13	0		
62	81	37	34	12	0		
61	79	36	32	11	0		
60	78	35	31	10	0		
59	75	34	29	9	0		
58	74	33	25	8	0		
57	71	32	24	7	0		
56	70	31	22	6	0		

Mean	45.4
Std. deviation	15.8
Median	46
KR-21 reliability	0.93
Std error/meas	4.1

HS19: High School Chemistry Exam
based on the scores of 798 students from 13 different institutions

