

**American Chemical Society Division of Chemical Education
Composite Norms – Organic Chemistry 2016 (OR16)**

Score	Percentile	Score	Percentile	Score	Percentile
70	100	44	73	18	3
69	100	43	70	17	2
68	100	42	68	16	1
67	100	41	65	15	1
66	100	40	62	14	0
65	100	39	59	13	0
64	100	38	57	12	0
63	99	37	54	11	0
62	99	36	51	10	0
61	98	35	48	9	0
60	98	34	45	8	0
59	97	33	42	7	0
58	97	32	39	6	0
57	96	31	35	5	0
56	94	30	32	4	0
55	93	29	29	3	0
54	92	28	27	2	0
53	90	27	23	1	0
52	89	26	20	0	0
51	88	25	17		
50	86	24	14	Mean	36.6
49	84	23	11	Std. deviation	11.4
48	82	22	9	Median	35
47	80	21	7	KR-21 reliability	0.88
46	78	20	6	Std error/meas	3.98
45	75	19	4		

Organic Chemistry 2016 Exam Composite Norms
based on the scores of 3010 students from 63 institutions

