

**American Chemical Society Division of Chemical Education
Composite Norms – Organic Chemistry First Term 2017 (OR17F)**

| Score | Percentile | Score | Percentile | Score | Percentile |
|-------|------------|-------|------------|-------|------------|
| 70 | 100 | 44 | 72 | 18 | 5 |
| 69 | 100 | 43 | 70 | 17 | 3 |
| 68 | 100 | 42 | 68 | 16 | 2 |
| 67 | 100 | 41 | 65 | 15 | 1 |
| 66 | 100 | 40 | 63 | 14 | 1 |
| 65 | 100 | 39 | 60 | 13 | 1 |
| 64 | 99 | 38 | 58 | 12 | 0 |
| 63 | 99 | 37 | 55 | 11 | 0 |
| 62 | 98 | 36 | 53 | 10 | 0 |
| 61 | 97 | 35 | 50 | 9 | 0 |
| 60 | 97 | 34 | 48 | 8 | 0 |
| 59 | 96 | 33 | 45 | 7 | 0 |
| 58 | 95 | 32 | 42 | 6 | 0 |
| 57 | 94 | 31 | 39 | 5 | 0 |
| 56 | 93 | 30 | 36 | 4 | 0 |
| 55 | 91 | 29 | 33 | 3 | 0 |
| 54 | 90 | 28 | 30 | 2 | 0 |
| 53 | 89 | 27 | 27 | 1 | 0 |
| 52 | 87 | 26 | 24 | 0 | 0 |
| 51 | 86 | 25 | 21 | | |
| 50 | 84 | 24 | 18 | | |
| 49 | 82 | 23 | 15 | | |
| 48 | 80 | 22 | 12 | | |
| 47 | 79 | 21 | 10 | | |
| 46 | 77 | 20 | 8 | | |
| 45 | 74 | 19 | 6 | | |

| | |
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| Mean | 36.2 |
| Std. deviation | 12.3 |
| Median | 35 |
| KR-21 reliability | 0.90 |
| Std error/meas | 3.94 |

OR17F Norms
based on the scores of 2944 students from 33 institutions

