

**American Chemical Society**  
**Division of Chemical Education**  
**Composite Norms**  
**Instrumental Methods Exam 1989**

| <u>Score</u> | <u>Percentile</u> | <u>Score</u> | <u>Percentile</u> | <u>Score</u> | <u>Percentile</u> |
|--------------|-------------------|--------------|-------------------|--------------|-------------------|
| 75           | 100               | 50           | 96                | 25           | 14                |
| 74           | 100               | 49           | 94                | 24           | 11                |
| 73           | 100               | 48           | 93                | 23           | 9                 |
| 72           | 100               | 47           | 92                | 22           | 7                 |
| 71           | 100               | 46           | 91                | 21           | 4                 |
| 70           | 100               | 45           | 89                | 20           | 3                 |
| 69           | 100               | 44           | 87                | 19           | 2                 |
| 68           | 100               | 43           | 85                | 18           | 1                 |
| 67           | 100               | 42           | 81                | 17           | 1                 |
| 66           | 100               | 41           | 78                | 16           | 1                 |
| 65           | 100               | 40           | 74                | 15           | 0                 |
| 64           | 100               | 39           | 69                | 14           | 0                 |
| 63           | 100               | 38           | 65                | 13           | 0                 |
| 62           | 100               | 37           | 60                | 12           | 0                 |
| 61           | 100               | 36           | 55                | 11           | 0                 |
| 60           | 100               | 35           | 51                | 10           | 0                 |
| 59           | 100               | 34           | 46                | 9            | 0                 |
| 58           | 100               | 33           | 41                | 8            | 0                 |
| 57           | 100               | 32           | 37                | 7            | 0                 |
| 56           | 100               | 31           | 34                | 6            | 0                 |
| 55           | 100               | 30           | 29                | 5            | 0                 |
| 54           | 99                | 29           | 24                | 4            | 0                 |
| 53           | 99                | 28           | 21                | 3            | 0                 |
| 52           | 98                | 27           | 19                | 2            | 0                 |
| 51           | 97                | 26           | 16                | 1            | 0                 |

|                |       |
|----------------|-------|
| Mean           | 34.77 |
| Std deviation  | 8.29  |
| Median         | 34.9  |
| KR-21 rel      | 0.74  |
| Std error/meas | 4.24  |