

**Table 3.4**  
**Efficiencies and Conversion Factors for 2 to 10 Observations\***

No. of Observations	Efficiency		Range Deviation Factor, $K_R$	Range Confidence Factor ( $t$ )	
	Of Median, $E_M$	Of Range, $E_R$		$t_{r,0.95}$	$t_{r,0.99}$
2	1.00	1.00	0.89	6.4	31.83
3	0.74	0.99	0.59	1.3	3.01
4	0.84	0.98	0.49	0.72	1.32
5	0.69	0.96	0.43	0.51	0.84
6	0.78	0.93	0.40	0.40	0.63
7	0.67	0.91	0.37	0.33	0.51
8	0.74	0.89	0.35	0.29	0.43
9	0.65	0.87	0.34	0.26	0.37
10	0.71	0.85	0.33	0.23	0.33
$\infty$	0.64	0.00	0.00	0.00	0.00

\*Adapted from R. B. Dean and W. J. Dixon, *Anal. Chem.*, 23 (1951) 636.