Critical Values for the Tukey Q Test

d.f. = N – K (ANOVA Error or Within d.f.) for ANOVA: Single Factor  
d.f. = N – R*C (ANOVA Within d.f.) for ANOVA: Two-Factor With Replication  
d.f. = (R – 1)*(C – 1) (ANOVA Error d.f.) for ANOVA: Two-Factor Without Replication

Number of Groups (Treatments) = K

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