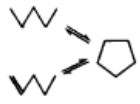
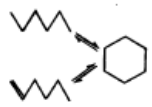
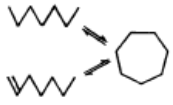
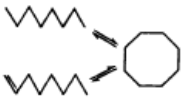
TABLE 2. *Entropy changes accompanying cyclization at 298°K*

System[a]	$-\Delta S°$ (cal deg^{-1} mol^{-1})	$-\Delta S°$/(no. int. rot.)	$-\Delta S°_{corr}$/(no. int. rot.)
	7.7	3.85	3.85
	7.0	7.00	
	10.9	3.63	4.90
	10.3	5.14	
	13.3	3.32	4.77
	13.1	4.37	
	21.2	4.25	4.25
	21.0	5.25	
	19.8	3.30	3.72
	19.6	3.92	
	19.0	2.71	3.91
	18.8	3.13	

Transition state	$\Delta S‡$ cal.deg^{-1} mole^{-1}	$-\Delta S‡$/(no. int.rot.)
6-membered		
Claisen rearrangement[b]	−2 to −14	0.7 to 4.7
Cope rearrangement[c]	−8 to −12	2.7 to 4.0
Ester pyrolyses[d]	+4 to −8	−1.3 to 2.7
hexatriene → 3-cyclohexadiene[e] (400°K)	−4.9	2.45
5-membered		
$CH_3CH_2NO_2 \rightarrow C_2H_4 + HNO_2$[f]	−9	4.5
4-membered		
Elimination of HX from alkyl halides[d]	+5 to −3	−5 to 3

[a] Data from ref. 21, 30; O'Neal, H. E., and S. W. Benson, *J. Chem. Eng. Data*, **15**, 266 (1970).

[b] Goering, H., and R. R. Jacobson, *J. Amer. Chem. Soc.* **80**, 3277 (1958); White, W. N., and C. D. Slater, *J. Org. Chem.*, **27**, 2908 (1962).

[c] Foster, E. G., A. C. Cope and F. Daniels, *J. Amer. Chem. Soc.*, **69**, 1893 (1947).

[d] Ref. 47.

[e] Lewis, K. E., and H. Steiner, *J. Chem. Soc.*, 3080 (1964).

[f] Fréjacques, M. C., *C. R. Hebd. Acad. Sci.* (Paris), **231**, 1061 (1950).