

TABLE 1. STATISTICAL CONSTANTS FOR RELATION BETWEEN LOG WATER VAPOUR TRANSMISSION RATES AND LOG FILM THICKNESS OF CELLULOSE ACETATE HYDROGEN PHTHALATE FILMS*

Temperature °C	Vapour pressure mm Hg	Correlation coefficient	Slope of line	Ordinate intercept log
20	17.5	0.96	-0.388	-3.779
20	13.2	0.94	-0.396	-3.788
25	23.6	0.99	-0.430	-3.698
30	31.8	0.97	-0.479	-3.645
30	23.9	0.98	-0.466	-3.732
30	10.3	0.96	-0.505	-3.466
40	55.3	0.99	-0.361	-3.925
40	41.6	0.97	-0.315	-4.044
40	17.4	0.98	-0.399	-3.902

* Film casting solution: Cellulose acetate hydrogen phthalate .. 50.0 g
 Acetone, to 400.0 ml
 Diethyl phthalate 12.5 g
 Methylene chloride, to 1000.0 ml

as the temperature is raised, the slope in Fig. 1D having a value of $+0.75 \times 10^3$. This anomalous behaviour, also observed with other cellulosic films (Patel, Patel & Lemberger, 1964), would seem to be related to a breaking of hydrogen bonds between permeant and film, causing in effect dehydration of the film and a reduction in permeation. This view is supported by the effect of temperature on dehydration of ether linkages in nonionic surfactants (Greenwald & Brown, 1954; Schick, 1962) resulting in a cloud point, the anomalous aqueous solubility of methylcellulose, and the dehydration of starch (Knyaginichev, Chernyak & Lyapunova, 1966). With BMA films there is little opportunity for hydrogen bond formation, the log R_{wvt} vs log t slope is closer to -1 and hence the normal temperature effect on permeation is observed.

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August 16, 1968

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Determination of methylimidazoleacetic acids in human urine by gas chromatography (Correction)

SIR,—In the addendum to a Letter to the Editor (*J. Pharm. Pharmac.*, 1968, **20**, 659-661) a typographical error has arisen which affects the gas chromatogram. Line 3 of the addendum should begin "0.05M acetate buffer, . . ." and not "0.5M acetate buffer, . . .".

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October 3, 1968