Table 2. Permeability coefficients (P_m) for various nonelectrolyte solutes across egg lecithin bilayer membranes at 25°C

	Permeant	V (Å^3)[a]	P_m (cm/sec)
1	Water	20.6	$(1.9 \pm 0.9) \times 10^{-3}$
2	Formic acid	38.5	$(2.9 \pm 0.1) \times 10^{-3}$
3	Acetic acid	55.5	$(5.0 \pm 0.2) \times 10^{-3}$
4	Acetamide	59.7	$(2.9 \pm 0.3) \times 10^{-4}$
5	Butyric acid	89.5	$(1.0 \pm 0.2) \times 10^{-1}$
6	Adenine	107	$(1.38 \pm 0.02) \times 10^{-5}$
7	Benzoic acid	108	$(5.7 \pm 0.5) \times 10^{-1}$
8	*p*-Toluic acid	125	1.1 ± 0.2
9	α-Hydroxy-*p*-toluic acid	133	$(1.6 \pm 0.4) \times 10^{-3}$
10	α-Chloro-*p*-toluic acid	139	$(6.4 \pm 0.1) \times 10^{-1}$
11	α-Cyano-*p*-toluic acid	144	$(2.7 \pm 0.5) \times 10^{-2}$
12	α-Methoxy-*p*-toluic acid	148	$(3.5 \pm 0.1) \times 10^{-1}$
13	β-Naphthoic acid	149	$(1.7 \pm 0.2) \times 10^{1}$
14	α-Naphthoic acid	149	2.3 ± 0.6
15	α-Carboxy-*p*-toluic acid	152	$(1.8 \pm 0.3) \times 10^{-4}$
16	α-Carbamido-*p*-toluic acid	157	$(4.1 \pm 0.4) \times 10^{-5}$
17	9-Anthroic acid	190	3.2 ± 0.8
18	2′,3′-Dideoxyadenosine	195	$(6.3 \pm 0.1) \times 10^{-5}$
	2′,3′-Dideoxyinosine		$<10^{-6}$
	2′,3′-Dideoxyguanine		$<10^{-6}$
19	2′-Deoxyadenosine	203	$(9.4 \pm 0.7) \times 10^{-7}$
20	Prednisolone	309	$(1.5 \pm 0.6) \times 10^{-4}$
21	Hydrocortisone	316	$(5.6 \pm 0.3) \times 10^{-4}$
22	Hydrocortisone-21-pimelamide	452	$(1.8 \pm 0.5) \times 10^{-4}$

[a] Molecular volume calculated by the atomic increment method (Edward, 1970).