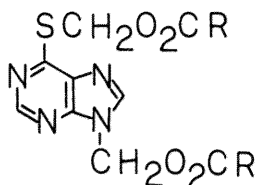


Table 13.3 Solubilities of S<sup>6,9</sup>-Bis-acyloxymethyl-6-mercaptopurine (6,9-bis-6-MP) Derivatives, the Fluxes ( $J_i^{S,V}$ ) and Log Permeability Coefficients ( $\log P_i^{S,V}$ ) for the Delivery of 6-Mercaptopurine (6-MP) by the Derivatives from Isopropyl Myristate (IPM), Propylene Glycol (PG) and Water



Derivative, R = /vehicle	Solubility <sup>a</sup>	$J_i^{S,V}$ <sup>b</sup> , mg/cm <sup>2</sup> h × 10 <sup>3</sup> (± SD)		$\log P_i^{S,V}$ , cm/h
1, 6-MP/IPM <sup>c</sup>	0.0034	0.60	(0.30)	- 0.73
2, R = CH <sub>3</sub> /IPM	0.80	34.5	(2.8)	- 1.36
3, R = C <sub>2</sub> H <sub>5</sub> /IPM	5.11	35.2	(9.9)	- 2.16
4, R = C <sub>3</sub> H <sub>7</sub> /IPM	13.8	21.5	(5.4)	- 2.81
5, R = C <sub>4</sub> H <sub>9</sub> /IPM	26.5	15.5	(7.4)	- 3.23
6, R = C <sub>5</sub> H <sub>11</sub> /IPM	7.56	1.75	(0.44)	- 3.63
7, R = C <sub>7</sub> H <sub>15</sub> /IPM	2.60	0.19	(0.014)	- 4.14
8, R = C(CH <sub>3</sub> ) <sub>3</sub> /IPM	31.4	5.48	(0.55)	- 3.76
1, 6-MP/PG <sup>c</sup>	6.2	0.093	(0.0060)	- 4.82
2, R = CH <sub>3</sub> /PG	2.79	0.58	(0.04)	- 3.68
3, R = C <sub>2</sub> H <sub>5</sub> /PG	8.63	1.95	(0.28)	- 3.65
4, R = C <sub>3</sub> H <sub>7</sub> /PG	9.54	1.60	(0.050)	- 3.76
5, R = C <sub>4</sub> H <sub>9</sub> /PG	8.32	0.77	(0.060)	- 4.03
6, R = C <sub>5</sub> H <sub>11</sub> /PG	1.71	0.18	(0.045)	- 3.99
1, 6-MP/H <sub>2</sub> O <sup>c</sup>	0.17	0.36	(0.21)	- 2.68