

**Table 11.3** In Vitro Percutaneous Absorption and Skin Distribution of Chemicals in Water Solution

Parameter	Chemical (%)		
	Benzene	54% PCBs	Nitroaniline
Percutaneous absorption (systemic)	0.045 ± 0.037	0.03 ± 0.00	5.2 ± 1.6
Surface bound/stratum corneum	0.036 ± 0.005	6.8 ± 1.0	0.2 ± 0.17
Epidermis and dermis	0.065 ± 0.057	5.5 ± 0.7	0.61 ± 0.25
Total (skin/systemic)	0.15	12.3	6.1
Skin wash/residual	2.51 ± 0.94	71.2 ± 5.5	92.4 ± 0.8
Apparatus wash	0.006 ± 0.005	0.25 ± 0.2	0.47 ± 0.03
Total (accountability)	2.67	83.3	99.0

**Table 11.4** In Vitro Percutaneous Absorption of Triclocarban in Adult and Newborn Abdominal and Foreskin Epidermis

Type	Dose absorbed (% ± SD)
Static system, 37°C	
human adult abdominal (n = 14)	0.23 ± 0.15
human newborn abdominal (n = 6)	0.26 ± 0.28
human infant abdominal (n = 4)	0.29 ± 0.09
monkey adult abdominal (n = 6)	0.25 ± 0.09
human adult foreskin (n = 4)	0.60 ± 0.25
human newborn foreskin (n = 7)	2.5 ± 1.6
Static system, 23°C	
human adult abdominal (n = 8)	0.13 ± 0.05
Continuous flow system, 23°C	
human adult abdominal (n = 12)	6.0 ± 2.0
Man in vivo (n = 5)	7.0 ± 2.8