

TABLE B-1

Cancer Data Sheet for Derivation of q_1^*

Compound: Chloroethene

Reference: Maltoni et al., 1980, 1981

Species, Strain, Sex: Rat, Sprague-Dawley, M,F combined

Body weight: 0.35 kg (assumed)

Length of exposure (t_e) = 365 daysLength of experiment (L_e) = up to 1029 daysLifespan of animal (L) = 1029 days

Tumor site and type: Liver angiosarcoma

Route, vehicle: Inhalation, air

Experimental Doses or ExposuresTransformed Dose^a
(mg/kg/day)Incidence
No. Responding/No.
Tested or Examined

ppm- BTIS	mg/m ³			
5 BTIS				
10 BTIS	25.6	0.344	1/119	.008 - 5
25 BTIS	63.9	0.860	5/120	.042 - 42
50 BTI	127.8	1.719	1/60	.017 - 16
100 BT2	255.6	3.438	1/120	.008 - 8
150 BT2	383.4	5.158	6/119	.0504 - 51
200	511.2	6.878	12/120	.1000 - 12
250	639.0	8.596	3/59	.0509 - 5
500	1278.1	17.19	6/60	.1000 - 6
2500	6390.5	86.97	13/60	.2167 - 21
6000	15337.4	206.3	13/59	.2203 - 22
10,000	25562.3	343.9	7/60	.1167 - 11
30,000	76687.1	1031.6	18/60	.3000 - 30
Controls		0.0	0/363	

Unadjusted q_1^* from study = 5.0381387×10^{-2} (mg/kg/day)^{-1b}
 Human q_1^* = 2.95×10^{-2} (mg/kg/day)⁻¹

^a $D = 0.223 \text{ m}^3/\text{day} \times 4/24 \times 5/7 \times [C] \times 0.5 + 0.35 \times 365/1029$

^bThe unadjusted q_1^* was derived from the dose-response data up to doses of 1.719 mg/kg/day. The goodness of fit hypothesis was rejected for the data at ≥ 3.438 mg/kg/day.