Experiment Number: S0539
Route: Gavage
Species/Strain: Rat/F344/N

Toxicokinetics Data Summary
Test Compound: 1-Chloro-2-propanol
CAS Number: 127-00-4

Date Report Requested: 01/09/2017
Time Report Requested: 12:42:25
Lab: T.S.I. Mason Laboratories

	Male	
	Treatment Groups (mg/kg)	
	7.5 [a]	15 [b]
	Plasma	
C_{max} (ug/mL)	1.63	5.97
T_{max} (minute)	5.0	10.0
$Lambda_z$ (minute^-1)	0.0292	0.0325
$t_{1/2}$ (minute)	23.77	21.30
$Cl_{1(F)}$ (mL/min/kg)	114.54	59.26
AUC_{0-t} (ug*min/mL)	63.18	250.89
AUC_{inf} (ug*min/mL)	65.48	253.13

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	Female	
	Treatment Groups (mg/kg)	
	7.5 [a]	15 [b]
	Plasma	
C_{max} (ug/mL)	1.82	4.97
T_{max} (minute)	5.0	5.0
$Lambda_z$ (minute^-1)	0.0388	0.0331
$t_{1/2}$ (minute)	17.87	20.95
$Cl_{1(F)}$ (mL/min/kg)	148.02	83.73
AUC_{0-t} (ug*min/mL)	49.35	177.50
AUC_{inf} (ug*min/mL)	50.67	179.14

LEGEND

Data are displayed as mean values

MODELING METHOD & BEST FIT MODEL

[a] Calculations, linear regression; linear kinetics

[b] Calculations, linear regression; linear kinetics-Kinetic analysis did not reveal any difference in kinetic disposition when the data was processed as a linear or non-linear model, so assumed linear.

ANALYTE

1-Chloro-2-propanol

TK PARAMETERS

C_{max} = Observed or Predicted Maximum plasma (or tissue) concentration

T_{max} = Time at which C_{max} predicted or observed occurs

$Lambda_z$ = Non-compartmental analysis (NCA) terminal elimination rate constant, NCA k_e or k_{elim}

$t_{½}$ = $Lambda_z$ half-life, $t_{1/2}$, the terminal elimination half-life based on non-compartmental analysis

$Cl_{1(F)}$ = Apparent clearance of the central compartment, also $Cl_{(F)}$ for gavage groups in non-compartmental model

AUC_{0-t} = Area under the plasma concentration versus time curve, AUC, from time t_i (initial) to t_f (final), AUC_{last}

AUC_{inf} = Area under the plasma concentration versus time curve, AUC, extrapolated to time equals infinity

** END OF REPORT **