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CARBON ADSORPTION ISOTHERMS FOR TOXIC ORGANICS

by

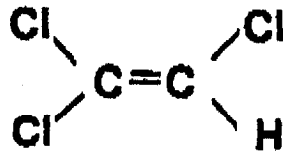
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COMPOUND: Trichloroethene (Trichloroethylene)

STRUCTURE:



FORMULA: C₂HCl₃ MOL. WT. 131.39

FREUNDLICH PARAMETERS	pH		
		5.3	
K	28.0		
1/n	0.62		
Corr. Coef. r	0.99		
INITIAL CONC. mg/l	ADSORPTION CAPACITY, mg/gm		
1.0	28		
0.1	6.7		
0.01	1.6		
0.001	0.38		

CALCULATED CARBON REQUIREMENTS TO ACHIEVE INDICATED CHANGE IN CONCENTRATION (a)

SINGLE STAGE POWDERED CARBON
C_f, mg/l

GRANULAR CARBON COLUMN

C ₀ , mg/l	0.1	0.01	0.001
1.0	130	620	2,600
0.1		56	260
0.01			23

C ₀ , mg/l	
1.0	36
0.1	15
0.01	6.3

(a) Carbon doses in mg/l at neutral pH.

ANALYTICAL METHOD: G. C. Purge and Trap

REMARKS: