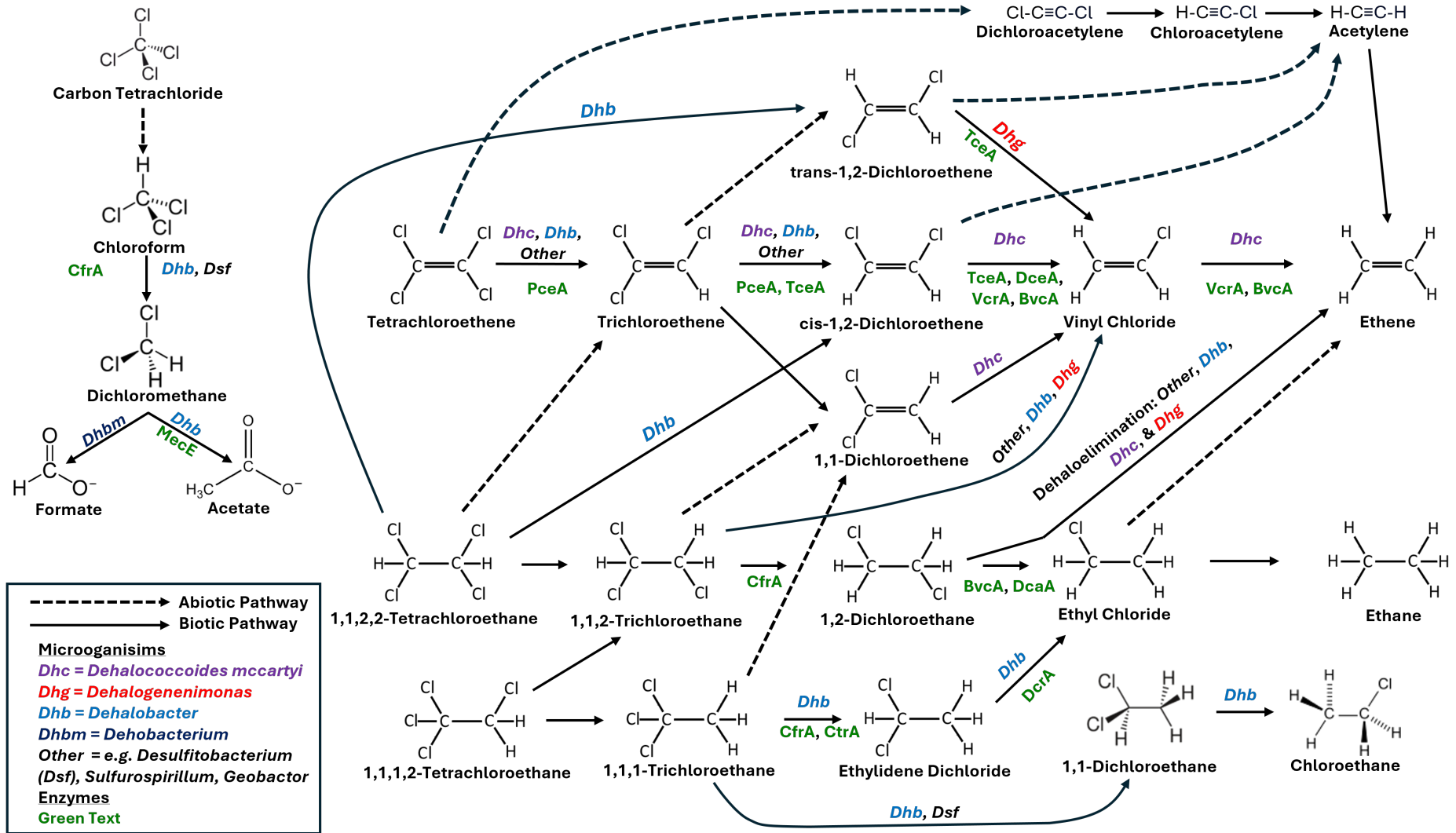


Abiotic & Biotic Pathways for Halogenated Volatile Organic Compounds (CVOCs)



Adapted From: Judger et al., 2016; Wei et al, 2016; Grosten et al., 2010; Sakmaryova et al., 2017; Scheutz et al. 2011; Bowman et al, 2013; Grostern & Edward, 2006; Maness et al., 2012; Manchester et al., 2012; Tang et al., 2013; and Lee et al., 2011.

Contaminants	Acronym	Aqueous Solubility (mg/L)	In Situ Sorption & Bioremediation	SEAR	Anaerobic Bioremediation	Aerobic Bioremediation	ISCR
			NutriBind®	TASK™ ASB TASK™ Soy	EDS-Advanced™ EDS-ER™ EDS-ME™ EDS-QR™ Nutrimens®	TersOx™	ZVI- ironGEL™ mZVI ISR-CI
Halogenated Volatile Organic Compounds (CVOCs)							
Chlorinated Ethenes							
Tetrachloroethene (Perchloroethylene)	PCE	150	✓	✓	✓		✓
Trichloroethene	TCE	1,100	✓	✓	✓		✓
cis-1,2-Dichloroethene	cis-DCE	3,500	✓	✓	✓		✓
trans-1,2-Dichloroethene	trans-DCE	6,260	✓	✓	✓	✓	✓
1,1-Dichloroethene	1,1-DCE	3,344	✓	✓	✓	✓	✓
Vinyl chloride	VC	2,763	✓	✓	✓	✓	✓
Chlorinated Ethanes							
Hexachloroethane	HCA	50	✓	✓	✓		✓
Pentachloroethane	PCA	500	✓	✓	✓		✓
1,1,1,2-Tetrachloroethane	1,1,1,2-TeCA	1,100	✓	✓	✓		✓
1,1,2,2-Tetrachloroethane	1,1,2,2-TeCA	2,962	✓	✓	✓		✓
1,1,2-Trichloroethane	1,1,2-TCA	4,394	✓	✓	✓		✓
1,1,1-Trichloroethane	1,1,1-TCA	1,495	✓	✓	✓		✓
1,2-Dichloroethane	1,2-DCA	8,606	✓	✓	✓		✓
1,1-Dichloroethane	1,1-DCA	4,676	✓	✓	✓		✓
Chloroethane	CA	5,700	✓	✓	✓		✓
Chlorinated Methanes							
Carbon tetrachloride	CT	800	✓	✓	✓		✓
Chloroform	CF	8,200	✓	✓	✓		✓
Dichloromethane	DCM	13,200	✓	✓	✓		✓
Chloromethane	CM	5,235	✓	✓	✓		✓

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