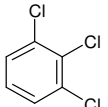
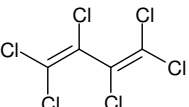
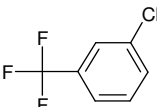
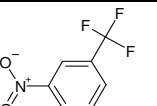
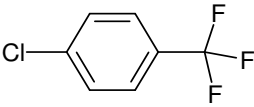
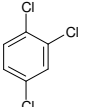
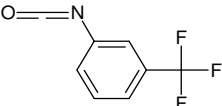
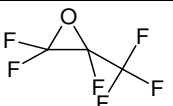
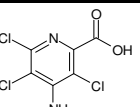
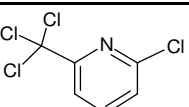
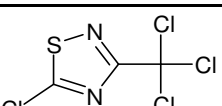
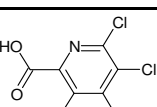
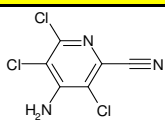
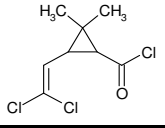
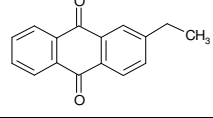
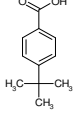
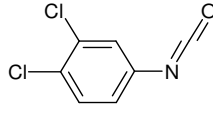
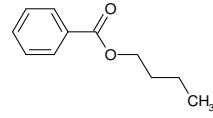
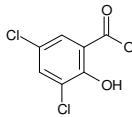
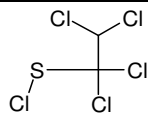
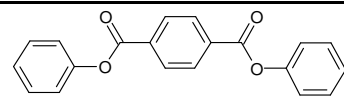
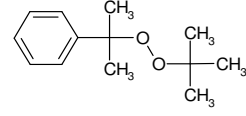
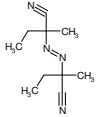
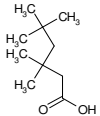


Appendix III: Brown Wania

DerekM: These are 24 chemicals identified by Brown&Wania ES&T 2008 which have arctic accumulation potential (persistence and bioaccumulation) and are not in the 610 chemical list

ID	Molstructure	Range94	Range98	Range02	Comment
000087-61-6		10	10		
000087-68-3					Inadvertent by-product from chlorinated solvent production. Tox Profile available
000098-15-7		0.5	1		
000098-46-4					
000098-56-6		50	50	10	
000120-82-1		50	50	10	
000329-01-1		10	1		Isocyanate will hydrolyze very rapidly (explosively)
000428-59-1		10	10	10	Epoxide likely to hydrolyze
001918-02-1		10	10	10	Amphoteric - very unlikely to be in vapor phase - need ionic SMILES for calculations
001929-82-4		1	10	10	Trichloromethyl will hydrolyze
005848-93-1		0.5	0.5	0.5	Trichloromethyl will hydrolyze
010469-09-7					P but not B, pKa will be important

Appendix III: Brown Wania

ID	Molstructure	Range94	Range98	Range02	Comment
014143-60-3		10			
052314-67-7		10	10	10	Acid chloride will hydrolyze very rapidly
000084-51-5		0.5	1	0.5	
000098-73-7		1	1	0.5	Not sure why in Brown and Wania list - BCF probably low even though log Kow >3.5 No
000102-36-3			10	10	Isocyanate hydrolyzes very fast
000136-60-7		1	0.5	1	Ester - biodegrades very fast
000320-72-9					10M-50M in 1986, nothing since
001185-09-7					C-S-Cl probably very reactive, not production lately
001539-04-4					Diester - will biodegrade very fast
003457-61-2		0.5	0.5	1	Peroxide - not stable in environment
013472-08-7		10	10	10	alpha-aminonitriles are very reactive to release HCN, this compound may also react rapidly
052270-44-7		0.5	0.5		Branched carboxylic acid probably doesn't biodegrade fast, but won't bioaccumulate