

BOD Calculation Chart											
Compound	Formula	MW	C	H	O	N	P	S	BOD/mol	BOD mg/g	
Glycerol	C3H8O3	92.1	3	8	3	0	0	0	3.5	1216	
Malic	C4H6O5	134.1	4	6	5	0	0	0	3	716	
Tartaric	C4H6O6	150.1	4	6	6	0	0	0	2.5	533	
Glucose	C6H12O6	180.2	6	12	6	0	0	0	6	1065	
Ethanol	C2H5OH	46.1	2	6	1	0	0	0	3	2082	
Citric	C6H8O7	192.1	6	8	7	0	0	0	4.5	750	
Ascorbic	C6H8O6	176.1	6	8	6	0	0	0	5	909	
Arginine	C6H14O2N4	115.1	6	14	2	4	0	0	13.5	3753	
Proline	C5H9O2N1	174.2	5	9	2	1	0	0	7.5	1378	
											BOD mg/L
Juice	22% Sugar	5g/L H2Ta	3g/L H2Ma	1g/L Arg							244473
Wine	12% Ethanol	5g/L H2Ta	3g/L H2Ma	8g/LGlycerol							264433
1% Citric											7496
Stillage	6.7g/L H2Ta	4g/L H2Ma	0.7g/L Glycerol								19446
Winery Distillery											1398 7060
COD Calculation Chart											
Compound	Formula	MW	C	H	O	N	P	S	COD mg/L	COD mg/g	
SO2	SO2	64.1	0	0	2	0	0	1	0.5	250	
HOCl	HOCl	52	0	1	1	0	0	0	-0.25	-154	
Catechin	C15H9O5	250	15	9	5	0	0	0	14.75	1888	
GS Tannin		1000							0	0	

													COD mg/L
	Juice												944
	WTWine												1888
	RTWine												7552