

Note: This is a reference cited in AP 42, *Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources*. AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference may be from a previous version of the section and no longer cited. The primary source should always be checked.

AP42 Section:	9.12.1
Background Chapter	4
Reference:	15
Title:	Can and Bottle Filler Vent Volatile Organic Compound Test for Coors Brewing Company, Air Pollution Testing, Inc., Westminster, CO, October, 1992.

D. Emission Data/Mass Flux Rates/Emission Factors

Test ID	Parameter	Units	Values reported			
			Run 1	Run 2	Run 3	Run 4
1	Stack temperature	Deg F	75	75		
CAN FILLER ROOM VENT	Moisture	%	1.11	1.29		
	Oxygen	%	20.9	20.9		
	Volumetric flow, actual	acfm	32306	31777		
	Volumetric flow, standard	dscfm	25932	25461		25696.5
	Isokinetic variation	%	NA	NA		
Circle: Production or feed rate Capacity:		1000 bbl/hr	1.245	1.108		
Pollutant concentrations:						
THC as propane		ppmwv	31.5	33.3		
Pollutant mass flux rates:						
THC as propane		lb/hr	5.67	5.90		
THC as ethanol (CF = 2.36)		lb/hr	13.4	13.9		
Emission factors: Average						
THC as propane		lb/1000 bbl	4.56	5.32		4.94
THC as ethanol		lb/1000 bbl	10.8	12.6		11.7

AIR FLOW RATIO FACTOR (61242/25696) = 2.383

<i>THC as propane</i>	<i>lb/1000 bbl</i>	10.9	12.7	11.6
THC as ethanol	lb/1000 bbl	25.6	29.9	27.8

Test ID	Parameter	Units	Values reported			
			Run 1	Run 2	Run 3	Run 4
2	Stack temperature	Deg F	72	72		
BOTTLE FILLER ROOM VENT	Moisture	%	1.24	1.98		
	Oxygen	%	20.9	20.9		
	Volumetric flow, actual	acfm	12352	12096		
	Volumetric flow, standard	dscfm	9970	9691		9830.5
	Isokinetic variation	%	NA	NA		
Circle: Production or feed rate Capacity:		1000 bbl/hr	0.519	0.605		
Pollutant concentrations:						
THC as propane		ppmwv	42.2	52.1		
Pollutant mass flux rates:						
THC as propane		lb/hr	2.93	3.54		
THC as ethanol (CF = 2.36)		lb/hr	6.9	8.3		
Emission factors: Average						
THC as propane		lb/1000 bbl	5.64	5.85		5.74
THC as ethanol		lb/1000 bbl	13.3	13.8		13.5

AIR FLOW RATIO FACTOR (28056/9830) = 2.854

<i>THC as propane</i>	<i>lb/1000 bbl</i>	16.1	16.7	16.4
THC as ethanol	lb/1000 bbl	38.0	39.4	38.7