

TABLE A-9. SUMMARY OF EMISSION FACTOR CALCULATIONS FOR PARTICLEBOARD COOLERS (a)

Test Code	Unit code	Pollutant(b)	No. of runs	Test method(c)	Resin type(d)	Cat./scav.?	Emission rate, Lb/hr	Production rate, MSF 3/4/hr	Emission factor Lb/MSF 3/4	Data rating	Comments
228-092392A	1C228	PM	1	M5	UF	Y	0.186	13.25	0.014	D	
Filterable PM, UF resin									Average	0.014	
228-092392A	1C228	PM10	1	M201A	UF	Y	0.0444	13.25	0.0034	D	
Filterable PM-10, UF resin									Average	0.0034	
228-092392A	1C228	PM10&CPM	1	M201A/202	UF	Y	0.167	13.25	0.013	D	Not reported as separate factor.
CPM										0.0092	Calculated as PM10&CPM - PM
Condensible PM, UF resin									Average	0.0092	
228-092292A	1C228	VOC	2	M25A	UF	Y	2.30	12.83	0.24	B	+ FOR(0.027) - nonVOC(0.0020
167-102090D	1C167	VOC	3	M25A	UF	NS	0.120	9.986	0.040	B	+ FOR(0.027) - nonVOC(0.0020
167-102588C	1C167	VOC	3	M25	UF	NS	3.39	8.29	0.52	A	+ FOR(0.027) - nonVOC(0.0020
VOC as propane, UF resin (+FOR -nonVOC)									Average	0.27	
nonVOC = acetone (0.0020)									Minimum	0.040	
									Maximum	0.52	
166-100892C	1C166	FOR	2	N3500	UF	NS	0.0850	20.16	0.0040	D	NIOSH 3500
167-102090D	1C167	FOR	3	N3500	UF	NS	0.0210	9.986	0.0021	D	NIOSH 3500
167-102588C	1C167	FOR	3	N3500	UF	NS	0.443	8.29	0.050	D	NIOSH 3500
202-030194C	1C202	FOR	1	M0011	UF	NS	0.210	12.16	0.017	D	
202-030194D	2C202	FOR	1	M0011	UF	NS	0.150	14.22	0.011	D	
228-092292A	1C228	FOR	3	M0011	UF	Y	0.748	12.83	0.0541	C	
Formaldehyde, UF resin									Average	0.027	
									Minimum	0.011	
									Maximum	0.054	
228-092292A	1C228	ACETALD	3	M0011	UF	Y	0.0170	12.83	0.0013	A	
Acetaldehyde, UF resin									Average	0.0013	
228-092292A	1C228	ACETONE	3	M0011	UF	Y	0.0252	12.83	0.0020	A	
Acetone, UF resin									Average	0.0020	
228-092292A	1C228	ACROLEIN	3	M0011	UF	Y	0.00463	12.83	0.00036	A	
Acrolein, UF resin									Average	0.00036	
228-092292A	1C228	BENZALD	3	M0011	UF	Y	0.00541	12.83	0.00042	A	
Benzaldehyde, UF resin									Average	0.00042	
228-092292A	1C228	BUTYLALD	3	M0011	UF	Y	0.00769	12.83	0.00060	A	
Butylaldehyde, UF resin									Average	0.00060	
228-092292A	1C228	CROTONAL	3	M0011	UF	Y	0.00372	12.83	0.00029	A	
Crotonaldehyde, UF resin									Average	0.00029	
228-092292A	1C228	HEXALD	3	M0011	UF	Y	0.014	12.83	0.0011	A	
Hexaldehyde, UF resin									Average	0.0011	

TABLE A-9. (Continued)

Test Code	Unit code	Pollutant(b)	No. of runs	Test method(c)	Resin type(d)	Cat./scav.?	Emission rate, Lb/hr	Production rate, MSF 3/4/hr	Emission factor Lb/MSF 3/4	Data rating	Comments
228-092292A	1C228	ISOVALALE	3	M0011	UF	Y	0.00512	12.83	0.00040	A	
Isovaleraldehyde, UF resin									Average	0.00040	
228-092292A	1C228	MEK	3	M0011	UF	Y	0.00144	12.83	0.00011	A	
Methyl ethyl ketone, UF resin									Average	0.00011	
228-092292A	1C228	VALALD	3	M0011	UF	Y	0.019	12.83	0.0015	A	
Valeraldehyde, UF resin									Average	0.0015	

(a) NS = not specified. Factor for VOC on a propane basis. VOC factor corrected by adding formaldehyde and deducting nonVOC's (acetone).

(b) Pollutant codes identified in Table 4-6.

(c) Test methods: M5 = EPA Method 5; M201A = EPA Method 201A; M201A/202 = EPA Methods 201A and 202, PM-10 front and back half; M25A = EPA Method 25A; M25 = EPA Method 25; N3500 = NIOSH Method 3500; M0011 = BIF Method 0011 for aldehydes and ketones.

(d) Resin type: UF = urea formaldehyde.