IDENTICAL-IN-SUBSTANCE RULEMAKING ADDENDUM (PROPOSED) TO THE OCTOBER 27 OPINION AND ORDER OF THE BOARD

Definition of VOM Update, USEPA Amendments (January 1, 2016 through June 30, 2016), R17-2 (October 27, 2016)

This addendum includes the following tables:

The tables included in this addendum supplement the Board's October 27, 2016 opinion and order in the above-cited identical-in-substance rulemaking.

Table 1: Deviations from the Text of the Federal Amendments

35 Ill. Adm. Code 211.7150(a), "Tertiary-butyl acetate"; derived from 40 C.F.R. 51.100(s)(1), t-butyl acetate

Retained the name "tertiary-butyl acetate," rather than use "t-butyl acetate"; added the IUPAC name "1,1-dimethylethyl acetic acid ester" in parentheses.

Table 2: Board Housekeeping Amendments

35 Ill. Adm. Code 211.7150(a), "acetone" (Board): Changed the common name "acetone" to the Added the IUPAC name "propan-2-one," moving the entry into appropriate alphabetic order.

35 Ill. Adm. Code 211.7150(a), "2-amino-2-methylpropan-1-ol" (Board): Changed "2-amino-2-methyl-1-propanol" to the IUPAC name "2-amino-2-methylpropan-1-ol"; added "CAS No. " in parentheses.

35 Ill. Adm. Code 211.7150(a), "bis(difluoromethoxy)difluoromethane" (Board): Changed "bis(difluoromethoxy)(difluoro)methane" to the IUPAC name "bis(difluoromethoxy)-difluoromethane"; removed the structural formula "$CHF_2OCF_2OCHF_2$ or "; added "CAS No. CAS No. 78522-47-1" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,2-bis(difluoromethoxy)-1,1,2,2-tetrafluoroethane" (Board): Removed the structural formula "$CHF_2OCF_2CF_2OCHF_2$ or "; added "CAS No. 188690-78-0" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "tertiary-butyl acetate" (Board): Added the alternative IUPAC name "1,1-dimethylethyl acetic acid ester" and "CAS No. 540-88-5" separated by a comma in parentheses.

35 Ill. Adm. Code 211.7150(a), "1-chloro-1,1-difluoroethane" (Board): Added "CAS No. 75-68-3" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "chlorodifluoromethane" (Board): Added "CAS No. 75-45-6" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1-chloro-1-fluoroethane" (Board): Added "CAS No. 1615-75-4" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "chlorofluoromethane" (Board): Added "CAS No. 593-70-4" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "chloropentafluoroethane" (Board): Added "CAS No. 76-15-3" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "2-chloro-1,1,1,2-tetrafluoroethane" (Board): Added "CAS No. 2837-89-0" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "(1E)-1-chloro-3,3,3-trifluoroprop-1-ene" (Board): Added the IUPAC name "(1E)-1-chloro-3,3,3-trifluoroprop-1-ene," placing the common name "trans-1-chloro-3,3,3-trifluoroprop-1-ene" in parentheses; added "CAS No. 29118-24-9" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethylpentane" (Board): Corrected "1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethyl-pentane" to "1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethylpentane" by replacing the hard hyphen between the "methyl" and "pentane" moieties with an optional hyphen[1]; removed the alternative name and structural formula "L-14787, or $C_2F_5CF(OCH_3)CF(CF_3)_2$"; added "CAS No. 132182-92-4" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1-chloro-4-(trifluoromethyl)¬benzene" (Board): Added the IUPAC name "1-Chloro-4-(trifluoromethyl)¬benzene," placing the common name "parachlorobenzotrifluoride (PCBTF)" in parentheses and moving the entry into appropriate alphabetic order; added "CAS No. 98-56-6" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,1,2,3,4,4,5,5,5-decafluoropentane" (Board): Added "CAS No. 138495-42-8" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "dichlorodifluoromethane" (Board): Added "CAS No. 75-71-8" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1-dichloro-1-fluoroethane" (Board): Added "CAS No. 1717-00-6" offset by a comma in the parentheses.

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[1] A hard hyphen allows an optional break at the end of a line, but it will also display as ahyphen in the middle of a line. *See infra* note 2.

35 Ill. Adm. Code 211.7150(a), "dichloromethane" (Board): Added the IUPAC name "dichloromethane"; moved the common name "methylene chloride" into parentheses; moved the entry into appropriate alphabetical order; added "CAS No. 75-09-2" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "3,3-dichloro-1,1,1,2,2-pentafluoropropane" (Board): Added "CAS No. 422-56-0" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,3-dichloro-1,1,2,2,3-pentafluoropropane" (Board): Added "CAS No. 507-55-1" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,2-dichloro-1,1,2,2-tetrafluoroethane" (Board): Added "CAS No. 76-14-2" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1-dichloro-2,2,2-trifluoroethane" (Board): Changed "1,1,1-trifluoro-2,2-dichloroethane" to the IUPAC name "1,1-dichloro-2,2,2-trifluoro¬ethane"; moved the entry into appropriate alphabetical order; added "CAS No. 306-83-2" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,2-dichloro-1,1,2-trifluoroethane" (Board): Added "CAS No. 354-23-4" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1-difluoroethane" (Board): Added "CAS No. 75-37-6" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "difluoromethane" (Board): Added "CAS No. 75-10-5" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "(difloromethoxy)difluoromethane" (Board): Chagned "(difloromethoxy)(difluoro)methane" to the IUPAC name "(difloromethoxy)difluoro-methane"; removed the structural formula "CHF_2OCHF_2 or"; added "CAS No. 1691-17-4" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1-(difloromethoxy)-2-[(difluoromethoxy)(difluoro)methoxy]-1,1,2,2-tetrafluoroethane" (Board): Removed the structural formula "$CHF_2OCF_2OCF_2CF_2O$ CHF_2 or"; corrected "HFE-43-10pccc" to "HFE-43-10pccc124"; added "CAS No. 188690-77-9" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "2-(difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane" (Board): Removed the structural formula "$(CF_3)_2CFCF_2OCH_3$"; added "CAS No. 163702-08-7" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "dimethyl carbonate" (Board): Added "CAS No. 616-38-6" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "ethane" (Board): Added "CAS No. 74-84-0" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "2-(ethoxydifluoromethyl)-1,1,1,2,3,3,3-heptafluoropropane" (Board): Removed the structural formula "$(CF_3)_2CFCF_2OC_2H_5$"; added "CAS No. 163702-06-5" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)hexane" (Board): Added "CAS No. 297730-93-9" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane" (Board): Removed the structural formula "$C_4F_9OC_2H_5$ or"; added "CAS No. 163702-05-4" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "ethylfluoride" (Board): Added "CAS No. 353-36-6" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,1,2,2,3,3-heptafluoro-3-methoxypropane" (Board): Removed the structural formula "n-$C_3F_7OCH_3$ or"; added "CAS No. 375-03-1" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,1,2,3,3,3-heptafluoropropane" (Board): Added "CAS No. 431-89-0" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,1,2,3,3-hexafluoropropane" (Board): Added "CAS No. 431-63-0" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,1,3,3,3-hexafluoropropane" (Board): Added "CAS No. 690-39-1" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "methane" (Board): Added "CAS No. 74-82-8" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "methyl acetate" (Board): Added the alternative name "methyl ethanoate" and "CAS No. 107-31-3" in parentheses.

35 Ill. Adm. Code 211.7150(a), "methylene chloride" (Board): Added the IUPAC name "dichloromethane"; moved the common name "methylene chloride" into parentheses; moved the entry into appropriate alphabetical order.

35 Ill. Adm. Code 211.7150(a), "4-methyl-1,3-dioxolan-2-one" (Board): Added the IUPAC name "4-methyl-1,3-dioxolan-2-one"; moved the common name "propylene carbonate" in parentheses; moved the entry into appropriate alphabetical order; added "CAS No. 108-32-7" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "methyl formate" (Board): Removed the structural formula "$CHOOCH_3$"; added the alternative name "ethyl ethanoate" and added "CAS No. 107-31-3" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxybutane" (Board): Removed the structural formula "$C_4F_9OCH_3$ or"; added "CAS No. 163702-07-6" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "parachlorobenzotrifluoride" (Board): Added the IUPAC name "1-Chloro-4-(trifluoromethyl)¬benzene"; moved the common name "parachlorobenzotrifluoride (PCBTF)" in parentheses; moving the entry into appropriate alphabetic order.

35 Ill. Adm. Code 211.7150(a), "1,1,1,3,3-pentafluorobutane" (Board): Added "CAS No. 406-58-6" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "pentafluoroethane" (Board): Added "CAS No. 354-33-6" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,2,2,3-pentafluoropropane" (Board): Added "CAS No. 679-86-7" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,2,3,3-pentafluoropropane" (Board): Added "CAS No. 24270-66-4" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,1,2,3-pentafluoropropane" (Board): Added "CAS No. 431-31-2" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,1,3,3-pentafluoropropane" (Board): Added "CAS No. 460-73-1" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "perchloroethylene" (Board): Added the IUPAC name "tetrachloroethylene"; moved the common name "perchloroethylene" in parentheses; moved the entry into appropriate alphabetic order.

35 Ill. Adm. Code 211.7150(a), "propan-2-one" (Board): Added the IUPAC name "propan-2-one"; moved the common name "acetone" into parentheses; moved the entry into appropriate alphabetic order; added "CAS No. 67-64-1" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "propylene carbonate" (Board): Added the IUPAC name "4-methyl-1,3-dioxolan-2-one"; moved the common name "propylene carbonate" in parentheses; moved the entry into appropriate alphabetical order.

35 Ill. Adm. Code 211.7150(a), "tetrachloroethylene" (Board): Added the IUPAC name "tetrachloroethylene"; moved the common name "perchloroethylene" in parentheses; moved the entry into appropriate alphabetic order; added "CAS No. 127-18-4" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,2,2-tetrafluoroethane" (Board): Added "CAS No. 359-35-3" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,1,2-tetrafluoroethane" (Board): Added "CAS No. 811-97-2" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "(1E)-1,3,3,3-tetrafluoropropene" (Board): Added the IUPAC name "(1E)-1,3,3,3-tetrafluoropropene"; moved the common name "trans-1,3,3,3-tetrafluoropropene" and "CAS No. 29118-24-9" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "2,3,3,3-tetrafluoroprop-1-ene" (Board): Changed "2,3,3,3-tetrafluoropropene" to the IUPAC name "2,3,3,3-tetrafluoroprop-1-ene"; added "CAS No. 754-12-1" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,1-trichloroethane" (Board): Added "CAS No. 71-55-6" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "trichlorofluoromethane" (Board): Added "CAS No. 75-69-4" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1,2-trichloro-1,2,2-trifluoroethane" (Board): Added "CAS No. 76-13-1" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "1,1-dichloro-2,2,2-trifluoro¬ethane" (Board): Changed "1,1,1-trifluoro-2,2-dichloroethane" to the IUPAC name "1,1-dichloro-2,2,2-trifluoro¬ethane"; moved the entry into appropriate alphabetical order.

35 Ill. Adm. Code 211.7150(a), "1,1,1-trifluoroethane" (Board): Added "CAS No. 420-46-2" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(a), "trifluoromethane" (Board): Added "CAS No. 75-46-7" offset by a comma in the parentheses.

35 Ill. Adm. Code 211.7150(d) (Board): Changed "subsection (b) of this Section" to "subsection (b)."

Table 3:
Errors in Federal Chemical Names and Board Corrections

1-chloro-1,1-difluoroethane: USEPA used a space instead of a hyphen between "1-chloro" and "1,1-difluoroethane."

USEPA used the names "dichlorofluoroethane" and "ethane, 1,1-dichloro-1-fluoro-" when adding the exclusion at 54 Fed. Reg. 1987 (Jan. 18, 1989). USEPA used "dichlorofluoroethane" when codifying the definition of VOC as 40 C.F.R. 51.100(s) at 56 Fed. Reg. 11387 (Mar. 18, 1991). USEPA changed the name to "1-chloro 1,1-difluoroethane" in the course of adopting other exclusions at 59 Fed. Reg. 50696 (Oct. 5, 1994).

The Board adopted the exclusion as "chlorodifluoroethane" in Exemptions from the Definition of VOM, R89-8 (Oct.18, 1989). The Board changed the name to use the federal name, "1-chloro 1,1-difluoroethane," in Omnibus Cleanup of the Volatile Organic Material RACT Rules Applicable to Ozone Nonattainment Areas: Amendments to 35 Ill. Adm. Code 203, 211, 218, and 219), R93-9 (Sep. 9, 1993) when the Board moved the definition from 211.122 to 211.7150 and deleted a parallel definition at 203.145. The Board added the hyphen to correct the name to "1-chloro-1,1-difluoroethane" in Exemptions from the Definition of VOM, USEPA Amendments (July 1, 1994 through December 31, 1994), R95-2 (July 7, 1995).

1-chloro-1-fluoroethane: USEPA used a space instead of a hyphen between "1" and "chloro-1-fluoroethane."

USEPA adopted the exclusion with the correct format for the chemical name at 62 Fed. Reg. 44900 (Aug. 22, 1997). The hyphen did not subsequently appear in the *Code of Federal Regulations*. *See* 40 C.F.R. 51.100(s)(1) (1998).

The Board added the hyphen to correct the name to "1-chloro-1-fluoroethane" in Exemptions from the Definition of VOM, USEPA Amendments (July 1, 1997 through April 9, 1998), R98-17 (June 17, 1998).

1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethylpentane: USEPA added a hard hyphen[2] between "1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethyl" and "pentane."

USEPA added the hard hyphen in initial adoption of this exclusion at 72 Fed. Reg. 2193 (Jan. 18, 2007).

The Board adopted the exclusion as "1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethyl-pentane" in Exemptions from the Definition of VOM, USEPA Amendments (January 1, 2007 through June 30, 2007), R08-6 (January 10, 2008). The Board corrects the name to "1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethylpentane" by replacing the hard hyphen with an optional hyphen in this proceeding.

1,1-dichloro-1-fluoroethane: USEPA used a space instead of a hyphen between "1,1-dichloro" and "1-fluoroethane."

USEPA used the names "chlorodifluoroethane" and "ethane, 1-chloro-1,1-difluoro-" when adding the exclusion at 54 Fed. Reg. 1987 (Jan. 18, 1989). USEPA used "dichlorofluoroethane" when codifying the definition of VOC as 40 C.F.R. 51.100(s) at 56 Fed. Reg. 11387 (Mar. 18, 1991). USEPA changed the name to "1,1-dichloro 1-fluoroethane" in the course of adopting other exclusions at 59 Fed. Reg. 50696 (Oct. 5, 1994).

The Board adopted the exclusion as "dichlorofluoroethane" in Exemptions from the Definition of VOM, R89-8 (Oct.18, 1989). The Board changed the name to use the federal name, "1,1-dichloro 1-fluoroethane," in Omnibus Cleanup of the Volatile Organic Material RACT Rules Applicable to Ozone Nonattainment Areas: Amendments to 35 Ill. Adm. Code 203, 211, 218, and 219), R93-9 (Sep. 9, 1993) when the Board moved the definition from 211.122 to 211.7150 and deleted a parallel definition at 203.145. The Board added the hyphen to correct the name to "1,1-dichloro-1-fluoroethane" in Exemptions from the Definition of VOM, USEPA Amendments (July 1, 1994 through December 31, 1994), R95-2 (July 7, 1995).

1,2-dichloro-1,1,2,2-tetrafluoroethane: USEPA used a space instead of a hyphen between "1,2-dichloro" and "1,1,2,2-tetrafluoroethane."

USEPA used the names "dichlorotetrafluoroethane" when adding the exclusion at 45 Fed. Reg. 48941 (July 22, 1980). USEPA used "dichlorotetrafluoroethane" when codifying the definition of VOC as 40 C.F.R. 51.100(s) at 56 Fed. Reg. 11387 (Mar. 18, 1991). USEPA changed the name to "1,2-dichloro 1,1,2,2-tetrafluoroethane" in the course of adopting other exclusions at 59 Fed. Reg. 50696 (Oct. 5, 1994).

The Board adopted the exclusion as "dichlorofluoroethane" in Exemptions from the Definition of VOM, R89-8 (Oct.18, 1989). The Board changed the name to use the federal name, "1,2-dichloro-1,1,2,2-tetrafluoroethane," in Omnibus Cleanup of the Volatile Organic

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[2] An optional hyphen allows a line break at its location in the word and only appears when the break occurs. An optional hyphen is otherwise not visible.

Material RACT Rules Applicable to Ozone Nonattainment Areas: Amendments to 35 Ill. Adm. Code 203, 211, 218, and 219), R93-9 (Sep. 9, 1993) when the Board moved the definition from 211.122 to 211.7150 and deleted a parallel definition at 203.145. The Board added the hyphen to correct the name to "1,2-dichloro-1,1,2,2-tetrafluoroethane" in Exemptions from the Definition of VOM, USEPA Amendments (July 1, 1994 through December 31, 1994), R95-2 (July 7, 1995).

1,1-dichloro-2,2,2-trifluoroethane: USEPA used a space instead of a hyphen between "1,1-dichloro" and "2,2,2-trifluoroethane."

USEPA used the names "dichlorotrifluoroethane" and "ethane, 2,2-dichloro-1,1,1-trifluoro-" when adding the exclusion at 54 Fed. Reg. 1987 (Jan. 18, 1989). USEPA used "dichlorotrifluoroethane" when codifying the definition of VOC as 40 C.F.R. 51.100(s) at 56 Fed. Reg. 11387 (Mar. 18, 1991). USEPA changed the name to "1,1,1-trifluoro 2,2-dichloroethane" in the course of adopting other exclusions at 59 Fed. Reg. 50696 (Oct. 5, 1994).

The Board adopted the exclusion as "dichlorotrifluoroethane" in Exemptions from the Definition of VOM, R89-8 (Oct.18, 1989). The Board changed the name to use the federal name, "1,1,1-trifluoro 2,2-dichloroethane," in Omnibus Cleanup of the Volatile Organic Material RACT Rules Applicable to Ozone Nonattainment Areas: Amendments to 35 Ill. Adm. Code 203, 211, 218, and 219), R93-9 (Sep. 9, 1993) when the Board moved the definition from 211.122 to 211.7150 and deleted a parallel definition at 203.145. The Board added the hyphen to correct the name to "1,1-dichloro-1-fluoroethane" in Exemptions from the Definition of VOM, USEPA Amendments (July 1, 1994 through December 31, 1994), R95-2 (July 7, 1995).

3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)hexane: USEPA added a space between "3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)" and "hexane."

USEPA added the space in initial adoption of this exclusion at 69 Fed. Reg. 69290 (Nov. 29, 2004).

The Board adopted the exclusion, correcting the name to "3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)hexane" by replacing the space with a hyphen in Exemptions from the Definition of VOM, USEPA Amendments (July 1, 2004 through December 31, 2994), R05-16 (May 19, 2005).

1,1,1,2,2,3,3-heptafluoro-3-methoxypropane: USEPA used a hard-hyphen, rather than an optional hyphen between "1,1,1,2,2,3,3-heptafluoro-3-methoxy" and "propane."

USEPA used the hard-hyphen in initial adoption of this exclusion at 69 Fed. Reg. 69290 (Nov. 29, 2004). The hard hyphen was not evident in the *Federal Register* notice, where it fell at the end of a line. The hard hyphen was subsequently evident in the *Code of Federal Regulations*. *See, e.g.,* 40 C.F.R. 51.100(s)(1) (2005).

The Board adopted the exclusion, correcting the name to "1,1,1,2,2,3,3-heptafluoro-3-methoxypropane" in Exemptions from the Definition of VOM, USEPA Amendments (July 1, 2004 through December 31, 2994), R05-16 (May 19, 2005).

Table 4:
Listing of Excluded Chemicals by USEPA Designation, with IUPAC Names, Alternative Names, and CAS Numbers

USEPA Name	IUPAC Name	Alternative Names	CAS Number
methane	methane	methyl hydride	74-82-8
ethane	ethane	methylmethane bimethyl ethyl hydride	74-84-0
methylene chloride (dichloromethane)	dichloromethane	methylene chloride	75-09-2
1,1,1-trichloroethane (methyl chloroform)	1,1,1-trichloroethane	methyltrichloro-methane	71-55-6
1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	1,1,2-trichloro-1,2,2-trifluoroethane		76-13-1
trichlorofluoromethane (CFC-11)	trichlorofluoromethane	trichloromonfluoro-methane	75-69-4
dichlorodifluoromethane (CFC-12)	dichlorodifluoromethane		75-71-8
chlorodifluoromethane (HCFC-22)	chlorodifluoromethane		75-45-6
trifluoromethane (HFC-23)	trifluoromethane	fluoroform	75-46-7
1,2-dichloro-1,1,2,2-tetrafluoroethane (CFC-114)	1,2-dichloro-1,1,2,2-tetrafluoroethane	cryofluorane 1,1,2,2-tetrafluoro-1,2-dichloroethane 1,2-dichlorotetrafluoroethane	76-14-2
chloropentafluoro-ethane (CFC-115)	chloropentafluoro-ethane	1-chloro-1,1,2,2,2-pentafluoroethane	76-15-3
1,1,1-trifluoro-2,2-dichloroethane (HCFC-123)	1,1-dichloro-2,2,2-trifluoroethane	2,2-dichloro-1,1,1-trifluoroethane 1,1,1-trifluoro-2,2-dichloroethane dichloro(trifluoro-methyl)methane	306-83-2
1,1,1,2-tetrafluoro-ethane (HFC-134a)	1,1,1,2-tetrafluoro-ethane	norflurane	811-97-2

USEPA Name	IUPAC Name	Alternative Names	CAS Number
1,1-dichloro-1-fluoro-ethane (HCFC-141b)	1,1-dichloro-1-fluoro-ethane	dichlorofluoroethane	1717-00-6
1-chloro-1,1-difluoro-ethane (HCFC-142b)	1-chloro-1,1-difluoro-ethane	chlorodifluoroethane 1,1-difluoro-1-chloro-ethane chloroethylidene fluroide	75-68-3
2-chloro-1,1,1,2-tetra-fluoroethane (HCFC-124)	2-chloro-1,1,1,2-tetra-fluoroethane	1-chloro-1,2,2,2-tetra-fluoroethane 1,1,1,2-tetrafluoro-2-chloroethane chlorotetrafluoroethane	2837-89-0
pentafluoroethane (HFC-125)	pentafluoroethane	1,1,1,2,2-pentafluoro-ethane	354-33-6
1,1,2,2-tetrafluoro-ethane (HFC-134)	1,1,2,2-tetrafluoro-ethane		359-35-3
1,1,1-trifluoroethane (HFC-143a)	1,1,1-trifluoroethane	methylfluoroform 1,1,1-trifluoroform	420-46-2
1,1-difluoroethane (HFC-152a)	1,1-difluoroethane	ethylidene difluoride ethylene fluoride	75-37-6
parachlorobenzotri-fluoride (PCBTF)	1-chloro-4-(trifluoro-methyl)benzene	4-chloro-α,α,α-tri-fluorotoluene (*p*-chlorophenyl)tri-fluoromethane *p*-chlorobenzotri-fluoride *p*-trifluoromethyl-phenyl chloride	98-56-6
acetone	propan-2-one	methyl ketone	67-64-1
perchloroethylene (tetrachloroethylene)	tetrachloroethene	1,1,2,2-tetrachloro-ethylene	127-18-4
3,3-dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)	1,1-dichloro-2,2,3,3,3-pentafluoropropane	3,3-dichloro-1,1,1,2,2-pentafluoropropane	422-56-0
1,3-dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)	1,3-dichloro-1,1,2,2,3-pentafluoropropane	1,3-dichloro-1,2,2,3,3-pentafluoropropane	507-55-1

USEPA Name	IUPAC Name	Alternative Names	CAS Number
1,1,1,2,3,4,4,5,5,5-decafluoropentane (HFC 43-10mee)	1,1,1,2,2,3,4,5,5,5-decafluoropentane	2H,3H-decafluoro-pentane 2,3-dihydroperfluoro-pentane	138495-42-8
difluoromethane (HFC-32)	difluoromethane	methylene difluoride	75-10-5
ethylfluoride (HFC-161)	fluoroethane	ethyl fluoride	353-36-6
1,1,1,3,3,3-hexafluoro-propane (HFC-236fa)	1,1,1,3,3,3-hexafluoro-propane	2,2-dihydroperfluoro-propane bistrifluoromethyl-methane	690-39-1
1,1,2,2,3-pentafluoro-propane (HFC-245ca)	1,1,2,2,3-pentafluoro-propane		679-86-7
1,1,2,3,3-pentafluoro-propane (HFC-245ea)	1,1,2,3,3-pentafluoro-propane		24270-66-4
1,1,1,2,3-pentafluoro-propane (HFC-245eb)	1,1,1,2,3-pentafluoro-propane		431-31-2
1,1,1,3,3-pentafluoro-propane (HFC-245fa)	1,1,1,3,3-pentafluoro-propane		460-73-1
1,1,1,2,3,3-hexafluoro-propane (HFC-236ea)	1,1,1,2,3,3-hexafluoro-propane		431-63-0
1,1,1,3,3-pentafluoro-butane (HFC-365mfc)	1,1,1,3,3-pentafluoro-butane		406-58-6
chlorofluoromethane (HCFC-31)	chlorofluoromethane	methylene chloride fluoride	593-70-4
1-chloro-1-fluoro-ethane (HCFC-151a)	1-chloro-1-fluoro-ethane	1-chlorofluoroethane	1615-75-4
1,2-dichloro-1,1,2-tri-fluoroethane (HCFC-123a)	1,2-dichloro-1,1,2-tri-fluoroethane	1,1,2-trifluoro-1,2-di-chloroethane	354-23-4
1,1,1,2,2,3,3,4,4-nona-fluoro-4-methoxy-butane ($C_4F_9OCH_3$ or HFE-7100)	1,1,1,2,2,3,3,4,4-nona-fluoro-4-methoxy-butane	methyl perfluorobutyl ether	163702-07-6

USEPA Name	IUPAC Name	Alternative Names	CAS Number
2-(difluoromethoxy-methyl)-1,1,1,2,3,3,3-heptafluoropropane ($(CF_3)_2CFCF_2OCH_3$)	2-(difluoromethoxy-methyl)-1,1,1,2,3,3,3-heptafluoropropane	methyl perfluoroiso-butyl ether	163702-08-7
1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane ($C_4F_9OC_2H_5$ or HFE-7200)	1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane	ethyl perfluorobutyl ether	163702-05-4
2-(ethoxydifluoro-methyl)-1,1,1,2,3,3,3-heptafluoropropane ($(CF_3)_2CFCF_2OC_2H_5$)	2-(ethoxydifluoro-methyl)-1,1,1,2,3,3,3-heptafluoropropane	ethyl perfluoroisobutyl ether	163702-06-5
methyl acetate	methyl acetate methyl ethanoate	acetic acid methyl ester	79-20-9
1,1,1,2,2,3,3-hepta-fluoro-3-methoxy-propane (n-C_3F7OCH_3, HFE-7000)	1,1,1,2,2,3,3-hepta-fluoro-3-methoxy-propane	perfluoropropyl methyl ether	375-03-1
3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodeca-fluoro-2-(trifluoro-methyl)hexane (HFE-7500)	3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodeca-fluoro-2-(trifluoro-methyl)hexane	3-ethoxyperfluoro(2-methylhexame)	297730-93-9
1,1,1,2,3,3,3-hepta-fluoropropane (HFC 227ea)	1,1,1,2,3,3,3-hepta-fluoropropane	apaflurane 2-hydroheptafluoro-propane 2-hydroperfluoro-propane 2H-heptafluoropropane	431-89-0
methyl formate ($HCOOCH_3$)	methyl formate methyl methanoate	formic acid methyl ester	107-31-3
1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethyl-pentane (HFE-7300)	1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-(trifluoromethyl)-pentane		132182-92-4

USEPA Name	IUPAC Name	Alternative Names	CAS Number
propylene carbonate	4-methyl-1,3-dioxolan-2-one	4-methyl-2-oxo-1,3-dioxolane carbonic acid cyclic propylene ester 1,2-propanediol carbonate 1,2-propanediyl carbonate 1-methylethylene carbonate	108-32-7
dimethyl carbonate	dimethyl carbonate dimethyl carbonic acid ester	methyl carbonate	616-38-6
trans-1,3,3,3-tetra-fluoropropene	(1*E*)-1,3,3,3-tetra-fluoropropene		29118-24-9
HCF_2OCF_2H (HFE-134)	(difluoromethoxy)-difluoromethane	oxybis(difluoro-methane)	1691-17-4
$HCF_2OCF_2OCF_2H$ (HFE-236cal2)	bis(difluoromethoxy)-difluromethane		78522-47-1
$HCF_2OCF_2CF_2OCF_2H$ (HFE-338pcc13)	1,2-bis(difluorometh-oxy)-1,1,2,2-tetra-fluoroethane		188690-78-0
$HCF_2OCF_2OCF_2CF_2OCF_2H$ (H-Galden1040x or H-Galden ZT 130 (or 150 or180))	1-(difluoromethoxy)-2-((difluoromethoxy)-difluoromethoxy)-11,22-tetrafluoroethane	HFE 43-10pccc124	188690-77-9
trans 1-chloro-3,3,3-trifluoroprop-1-ene	(1*E*)-1-chloro-3,3,3-trifluoroprop-1-ene		102687-65-0
2,3,3,3-tetrafluoropropene	2,3,3,3-tetrafluoroprop-1-ene	HFC-1234yf	754-12-1

USEPA Name	IUPAC Name	Alternative Names	CAS Number
2-amino-2-methyl-1-propanol	2-amino-2-methyl-propan-1-ol	2-amino-2-methyl-propanol aminomethyl propanol 2-aminoisobutanol isobutanol-2-amine β-aminoisobutanol 2-hydroxymethyl-2-propylamine 2-methyl-2-amino-propanol hydroxy-*tert*-butyl-amine AMP	124-68-5
t-butylacetate	1,1-dimethylethyl acetic acid ester	*tert*-butyl acetic acid ester	540-88-5