

Errata and Clarifications

METHODOLOGY FOR THE QUANTIFICATION, MONITORING, REPORTING AND VERIFICATION OF GREENHOUSE GAS EMISSION REDUCTIONS AND REMOVALS FROM THE TRANSITION TO ADVANCED FORMULATION BLOWING AGENTS IN FOAM MANUFACTURING AND USE

VERSION 3.0

2024-01-10

This Errata and Clarifications document is supplemental to the ACR Methodology *The Transition to Advanced Formulation Blowing Agents in Foam Manufacturing and Use, Version 3.0* (“the Methodology”) and applies to all projects registered under the Methodology. Each erratum and clarification contained herein is effective as of its posting date listed below. This document may be updated as supplemental information or clarifications are needed. Project Developers and Verification Bodies shall adhere to the errata and clarifications when implementing projects and conducting verification activities.

1. Erratum: Definition of GWP (2024-01-10)

Acronyms and Definitions section of the Methodology defines Global Warming Potential (GWP) on page 6. Per this erratum, the definition of GWP, as it applies for this Methodology, is modified as follows.

“Global warming potential is a relative scale translating the global warming impact of any GHG into its CO₂e over the same timeframe. This methodology references the 100-year GWPs in the IPCC Fourth Assessment Report (AR4) for credit vintages through 2020 and IPCC Fifth Assessment Report (AR5) for 2021 and later vintages. If neither are available, GWPs cited by the U.S. EPA SNAP Program shall be applied. GWPs found in this Methodology (Tables 3, 4, and 10) shall be applied in the quantification of baseline and project emissions.”

2. Clarification: Table 3: GWP of Common Baseline BAs (2024-01-10)

Table 3 in the Methodology provides global warming potential (GWP) values for common baseline blowing agents (BAs). Per this clarification, Table 3 is replaced with the following table with updated headers to clarify which GWPs to use based on credit vintage, consistent with the ACR Standard.

Table 3: GWP of Common Baseline BAs⁴

BLOWING AGENT (BA)	GWP UP TO 2020 (AR4)	GWP FROM 2021 (AR5)
HFC-125a	124	137
HFC-365mfc	794	805
HFC-245fa	1030	858
HFC-134a	1430	1301

⁴ This is not an exhaustive list but rather a guidance for project proponents.

3. Erratum: Table 10: GWPs for Selected Eligible BAs (2024-01-10)

Appendix B, Table 10, on page 42 of the Methodology provides GWP values for selected eligible BAs. Per this erratum, Table 10 is replaced with the following table and its footnotes are modified as follows.

Table 10: GWPs for Selected Eligible BAs

ELIGIBLE BA	GWP
Methyl Formate	5 ²⁰
HFO-1336mzz(Z)	2 ²¹
HCFO-1233zd(E)	1 ²²
CO ₂	1 ²³
Methylal	1 ²⁴
HFO-1234ze	1 ²⁵

²⁰ U.S. EPA (2023). Significant New Alternatives Policy (SNAP), Substitutes in Rigid Polyurethane: Appliance. <https://www.epa.gov/snap/substitutes-rigid-polyurethane-appliance>.

²¹ IPCC (2013). Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (2013). Chapter 8 – Anthropogenic and Natural Radiative Forcing. Table 8.A.1, page 732.

https://www.ipcc.ch/site/assets/uploads/2018/02/WG1AR5_Chapter08_FINAL.pdf.

IPCC (2013). Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (2013). Chapter 8.SM – Anthropogenic and Natural Radiative Forcing – Supplemental Material, Table 8.SM.16, page 8SM-28.

https://www.ipcc.ch/site/assets/uploads/2018/07/WGI_AR5.Chap_8_SM.pdf.

HFO-1336mzz(Z) is represented as (Z)-HFC-1336 in Tables 8.SM.16 and 8.A.1.

²² IPCC (2013). Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (2013). Chapter 8 – Anthropogenic and Natural Radiative Forcing. Table 8.A.1, page 731.

https://www.ipcc.ch/site/assets/uploads/2018/02/WG1AR5_Chapter08_FINAL.pdf.

IPCC (2013). Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (2013). Chapter 8.SM – Anthropogenic and Natural Radiative Forcing – Supplemental Material, Table 8.SM.16, page 8SM-25.

https://www.ipcc.ch/site/assets/uploads/2018/07/WGI_AR5.Chap_8_SM.pdf.

HCFO-1233zd(E) is represented as (E)-1-Chloro-3,3,3-trifluoroprop-1-ene in Tables 8.SM.16 and 8.A.1.

²³ IPCC (2013). Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (2013). Chapter 8 – Anthropogenic and Natural Radiative Forcing. Table 8.A.1, page 731.

https://www.ipcc.ch/site/assets/uploads/2018/02/WG1AR5_Chapter08_FINAL.pdf.

²⁴ U.S. EPA (2020). Protection of Stratospheric Ozone: Determination 36 for Significant New Alternatives Policy Program. <https://www.regulations.gov/document/EPA-HQ-OAR-2003-0118-1710>.

²⁵ IPCC (2013). Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (2013). Chapter 8.SM – Anthropogenic and Natural Radiative Forcing – Supplemental Material, Table 8.SM.16, page 8SM-27.

https://www.ipcc.ch/site/assets/uploads/2018/07/WGI_AR5.Chap_8_SM.pdf.