

Reference Values Obtained from ODS Protocol for CFC-12, CFC-11, CFC-113, CFC-114, CFC-115

		CFC-12	CFC-11	CFC-13	CFC-113	CFC-114	CFC-115		
CFC-12 10-Year Cumulative Emissions Rate (%/10 Years)	ER	95%	89%	61%	89%	78%	61%	Errata and Clarifications, Table 3	
Refrigerant Substitute Emissions Factor (tCO2e/tODS)	SE	812	201	7569	219	660	1868	Errata and Clarifications, Table 4	
Global Warming Potential (tCO2e/tODS)	GWP	10239	4663	13893	5824	8592	7665	Errata and Clarifications, Table 5	
Default Emission Factor for Transportation and Destruction of ODS (tCO2e/tODS)	EF	7.5							Sec. 6.4, Table 2

Container	Refrigerant Type	Measured Values		Gross Quantity of Refrigerant Destroyed (kg)	Moisture Reduction	High Boiling Residue Reduction	Total Eligible Refrigerant Destroyed (kg)	Quantity of Refrigerant Destroyed (metric tonnes)	GHG Emissions from Substitute Refrigerants	Quantity of ODS Transported to Destruction Facility	Transportation and Destruction Default Emissions Factor (tCO2e)	Total Project Emissions (tCO2e)	Total Project Baseline Emissions (tCO2e)	Total GHG Emissions Reductions (tCO2e)
		Mass of ODS in COD in kg	Concentration of ODS in Tranche											
		m	c	Q <sub>g</sub>	mr	hbr	Q	Q <sub>ref</sub>	Sub <sub>ref</sub>	Q <sub>d</sub>	Def	PE	BE <sub>ref</sub>	ER
				Q <sub>g</sub> = m x c			Q = Q <sub>g</sub> - (Q <sub>g</sub> x mr) - (Q <sub>g</sub> x hbr)	Q <sub>ref</sub> = Q / 1000	Sub <sub>ref</sub> = Q <sub>ref</sub> x SE		Def = Q <sub>d</sub> x EF	PE = Sub <sub>ref</sub> + Def	BE <sub>ref</sub> = Q <sub>ref</sub> x ER x GWP	ER = BE <sub>ref</sub> - PE
BNFU6221109	CFC-12		96.06%	20768.17			20349.46	20.35	16523.77				197940.26	
	CFC-11		2.37%	512.39			502.06	0.50	100.91				2083.60	
	CFC-13	21620.0	0.00%	0.00	0.000161	0.020000	0.00	0.00	0.00	21.62000	162.15	16786.83	0.00	183237.03
	CFC-114		0.00%	0.00			0.00	0.00	0.00				0.00	
	CFC-115		0.00%	0.00			0.00	0.00	0.00				0.00	
BNF20124100199	CFC-12		98.05%	88.25			82.94	0.08	67.35				806.78	
	CFC-11		0.00%	0.00			0.00	0.00	0.00				0.00	
	CFC-13	90.0	0.00%	0.00	0.000098	0.060000	0.00	0.00	0.00	0.09000	0.68	68.02	0.00	738.75
	CFC-114		0.00%	0.00			0.00	0.00	0.00				0.00	
	CFC-115		0.00%	0.00			0.00	0.00	0.00				0.00	
<b>TOTAL</b>												16854.85	200830.64	183975.79

Destruction Information

Container	Weight of Material Destroyed (Kg)	Start Weight (Kg)	End Weight (Kg)	Destruction Start Date	Destruction Facility	Certificate of Destruction ID	End Date of Destruction
BNFU6221109	21,620.00	33320	11700	12/14/2024	WMS	BP008	2/14/2024
BNF20124100199	90.00	660	570	2/18/2025	WMS	BP010	2/19/2025

Container	Sampling Information					Purity					Moisture Level (PPM)	High Boiling Residue (%)	Saturation Point at Sampling Temperature	75% of Saturation Point	
	Date of Sample	Time of Sample	Technician Taking Sample	Sampling Company	Ambient Air Temperature (degrees C)	R12 Purity (%) of ODS	R11 Purity (%) of ODS	R-13 Purity (%) of ODS	R113 Purity (%) of ODS	R114 Purity (%) of ODS					R115 Purity (%) of ODS
BNFU6221109	12/9/2024	4:00 PM	Ampol Ruttanasang	WMS	32	96.06	2.37	0	0	0	0	161	0.02	125	93.75
BNF20124100199	1/21/2025	2:33 PM	Ampol Ruttanasang	WMS	33	98.05	0	0	0	0	0	98	0.06	135	101.25