

Property	PCF Calculation:		Data Type Specification	Example
	M - Mandatory/ O - Optional/ O* - Mandatory starting 2025			
Product Footprint Identifier	O		String; must be a UUID v4	3893bb5d-da16-4dc1-9185-11d97476c254
Product Footprint Specification Version	M		Text	urn:io.catenax.pcf.datamodel:version:7.0.0
Partial Or Full PCF (Product Carbon Footprint)	M		Enumeration; "Cradle-to-gate", "Cradle-to-grave"	Cradle-to-gate
Previous PCF (Product Carbon Footprint) Identifiers	O		Non-empty set of strings	9c5b94b1-35ad-49bb-b118-8e8fc24abf8
Product (Carbon) Footprint Version	O		Integer in inclusive range of 0..2^31-1; per default "0" in Catena-X	0
Creation of the Product (Carbon) Footprint	M		Time stamp; must be in UTC (Coordinated Universal Time) conforming to ISO 8601	2020-03-01T00:00:00Z
Status	O		Enumeration; "Active", "Deprecated"; per default "Active" in Catena-X	Active
Validity Period Start	O		Time stamp; if defined, must be equal to or greater than referencePeriodEnd	2022-01-01T00:00:01Z
Validity Period End	O		Time stamp	2022-12-31T23:59:59Z
Comment	O		Text	Additional explanatory information not reflected by other attributes
PCF (Product Carbon Footprint) Legal Statement	O		Text	This PCF (Product Carbon Footprint) is for information purposes only. It is based upon the standards mentioned above.
Company Name	O		String with 1 or more characters	My Corp
Company Ids	O		Non-empty set of URN (Uniform Resource Name); array of strings (<URN> ::= "urn:" <NID> ":" <NSS>)	urn:bpn:id:BPNL000000000DWF
Product Description	O		Text	Ethanol, 95% solution
Product Ids	M		Non-empty set of URN; array of strings (<URN> ::= "urn:" <NID> ":" <NSS>)	urn:gtin:4712345060507
Product Category	O		String; UN CPC Code version 2.1; per default "011-99000" in Catena-X	011-99000
Product Trade Name	O		String with 1 or more characters	My Product Name
Unit of measurement	M		String; enumeration as specified by WBCSD plus "piece" for Catena-X	kilogram
Unitary Product Amount	M		Positive, non-zero decimal number	1000.0
Product Mass Per Declared Unit	M		Positive, non-zero decimal number	0.456
Exempted Emissions Percent	M		Decimal number between 0.0 and 5 including	0.0
Exempted Emissions Description	O		Text; can be empty	No exemption
Packaging Emissions Included	M		Boolean; can be "TRUE" or "FALSE"	TRUE

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Boundary Processes Description	O	Text	Electricity consumption included as an input in the production phase
Geography Country Subdivision	O	String; if defined must be ISO 3166-2 Subdivision Code	US-NY
Geography Country	O	String; if defined must be an ISO 3166-2 alpha-2 code	FR
Region	O	String with 1 or more characters; enumeration as specified by WBCSD plus "Global" and "Several" for Catena-X	Africa
Reference Period Start	M	Time stamp; must be in UTC conforming to ISO 8601	2022-01-01T00:00:01Z
Reference Period End	M	Time stamp; must be in UTC conforming to ISO 8601	2022-12-31T23:59:59Z
Cross Sectoral Standard	M	Object crossSectoralStandardsUsed; set of Cross Sectoral Standard entries. For each crossSectoralStandard: Enumeration "ISO 14067", "Pathfinder v1", "Pathfinder v2", "GHG Protocol Product Standard", "PAS 2050", "ISO 14040-44", "PEF", "Other"	GHG Protocol Product Standard
Operator or Publisher of Sector Specific Rules	M	Object productOrSectorSpecificRules; set of Product or Sector Specific Rule entries (each including Operator, Rule Names and Other Operator Name) For each operator: enumeration "PEF", "EPD International", "Other"; per default "Other" in Catena-X	Other
Product or Sector Specific Rule Names	M	Object productOrSectorSpecificRules; set of Product or Sector Specific Rule entries (each including Operator, Rule Names and Other Operator Name) For all rulenames: set of RuleName entries	urn:tfs-initiative.com:PCR:The Product Carbon Footprint Guideline for the Chemical Industry:version:v2.0
Other Operator Name	O	Object productOrSectorSpecificRules; set of Product or Sector Specific Rule entries (each including Operator, Rule Names and Other Operator Name) For each otherOperatorName: Non-empty string	NSF
Characterization Factors	M	Enumeration "AR6", "AR5"; per default "AR6" in Catena-X	AR6
Allocation Rules Description	O	Text; per default "In accordance with Catena-X PCF Rulebook" in Catena-X	In accordance with Catena-X PCF Rulebook
Allocation Waste Incineration	M	Enumeration "cut-off", "reverse cut-off", "system expansion"; per default "cut-off" in Catena-X	cut-off
Primary Data Share	O*	Decimal number in range of and including 0..100	7.183924
Emission Factor Data Source	M	Object; set of EmissionFactorDataSources	ecoinvent 3.8
Coverage Percent	O*	Decimal number in range of and including 0..100; per default "100" in Catena-X	100
Technological DQR (Data Quality Rating)	O	Decimal number in range of and including 1..3	2.0
Temporal DQR (Data Quality Rating)	O	Decimal number in range of and including 1..3	2.0
Geographical DQR (Data Quality Rating)	O	Decimal number in range of and including 1..3	2.0
Completeness DQR (Data Quality Rating)	O	Decimal number in range of and including 1..3	2.0
Reliability DQR (Data Quality Rating)	O	Decimal number in range of and including 1..3	2.0

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PCF (Product Carbon Footprint) Excluding Biogenic	M	Must be calculated per declared unit with kgCO2e / declaredUnit equal to or greater zero	2.0
PCF (Product Carbon Footprint) Including Biogenic	O*	Must be calculated per declared unit with kgCO2e / declaredUnit	1.0
Fossil Emissions	O*	Must be calculated per declared unit with kgCO2e / declaredUnit equal to or greater zero	0.5
Biogenic Carbon Emissions Other Than CO2	O*	Must be calculated per declared unit with kgCO2e / declaredUnit equal to or greater zero	1.0
Biogenic Carbon Withdrawal	O*	Must be calculated per declared unit in kgCO2e / declaredUnit equal to or less than zero	0.0
dLUC (direct land use change) GHG (Greenhouse Gas) Emissions	O*	Must be calculated per declared unit with kgCO2e / declaredUnit equal to or greater zero	0.4
LU (Land Use) GHG (Greenhouse Gas) Emissions	O*	Must be calculated per declared unit with kgCO2e / declaredUnit	0.3
Aircraft GHG Emissions	O*	Must be calculated per declared unit with kgCO2e / declaredUnit equal to or greater zero	0.0
Packaging GHG (Greenhouse Gas) Emissions	O	Must be calculated per declared unit with kgCO2e / declaredUnit equal to or greater zero	0.0
Distribution Stage PCF (Product Carbon Footprint) Excluding Biogenic	O	Must be calculated per declared unit with kgCO2e / declaredUnit equal to or greater zero	1.5
Distribution Stage PCF (Product Carbon Footprint) Including Biogenic	O	Must be calculated per declared unit with kgCO2e / declaredUnit	0.0
Distribution Stage Fossil GHG (Greenhouse Gas) Emissions	O	Must be calculated per declared unit with kgCO2e / declaredUnit equal to or greater zero	0.5
Distribution Stage Biogenic Carbon Emissions Other Than CO2	O	Must be calculated per declared unit with kgCO2e / declaredUnit equal to or greater zero	1.0
Distribution Stage Biogenic Carbon Withdrawal	O	Must be calculated per declared unit in kgCO2e / declaredUnit equal to or less than zero	0.0
Distribution Stage dLUC (direct land use change) GHG (Greenhouse Gas) Emissions	O	Must be calculated per declared unit with kgCO2e / declaredUnit equal to or greater zero	1.0
Distribution Stage LU (Land Use) GHG (Greenhouse Gas) Emissions	O	Must be calculated per declared unit with kgCO2e / declaredUnit	1.1
Distribution Stage Aircraft GHG Emissions	O	Must be calculated per declared unit with kgCO2e / declaredUnit equal to or greater zero	0.0
Carbon Content Total	O*	Must be calculated per declared unit with kgCO2e / declaredUnit equal to or greater zero	2.5
Fossil Carbon Content	O*	Must be calculated per declared unit with kgC / declaredUnit equal to or greater zero; per default calculated in Catena-X (Total - Biogenic)	0.1
Biogenic Carbon Content	O*	Must be calculated per declared unit with kgC / declaredUnit equal to or greater zero	0.0