

Entity	Attribute	Description	Value Datatype	Value Source	Cardinality	Definition?
Recipe	Title	Title as it appears on recipe. If no title appears on recipe, supply one for description.	literal - text string	Derived from recipe or assigned	1	http://purl.org/dc/terms/title
	AlternateTitle	Other title appearing on recipe or known to refer to that version of the recipe. Other names referring to the dish of which this recipe is a version are handled in DishName vocabulary.	literal - text string	Derived from recipe or assigned	0+	http://purl.org/dc/terms/alternative
	DishCreator	Name of person, restaurant, brand, or group responsible for creating the dish. This is not the person responsible for writing the recipe. Repeatable in cases such as: Known personal creator in context of known restaurant (Alice Waters, Chez Panisse) or Known personal creator for a brand (Emeril Lagasse for Zataran's)	non-literal value - text string	Controlled name value selected from FoodieNamesVocabulary	0+	
	DishName	Name of dish of which the recipe is a version.	non-literal value - text string	Controlled name value selected from Thesaurus of Dishes	1	http://purl.org/dc/terms/isVersionOf
	GeographicOrigin	Area of the world in which the dish originated	non-literal value - text string	Controlled geographic name value selected from Thesaurus of Geographic Names	0+	
	EthnicOrigin	Social grouping with whom dish originated	non-literal value - text string	Controlled value: Notation selected from Table 5 of Dewey Decimal Classification	0+	
	MealCategory	Meal at which dish is typically served	non-literal value - text string	Controlled value: breakfast, brunch, lunch, dinner, snack	0+	
	DishCategory	Category describing dish (may include course at which dish is typically served, type or form of dish)	non-literal value - text string	Controlled value: Term(s) selected from Thesaurus of Dishes	1+	
	OccasionCategory	Special occasion with which dish is associated (including holidays, observances)	non-literal value - text string	Controlled value: Vocabulary of Observances	1+	
	RelatedDish	Name of related dish	non-literal value - text string	Controlled name value selected from Thesaurus of Dishes	0+	
	DistinguishingNote	Note about what distinguishes this version of the dish from other versions of the same dish	literal - text string	Free text	0,1	
	DescriptiveNote	Descriptive note about this version of the dish. Often a transcription of the introductory caption to a recipe as printed in a cookbook.	literal - text string	Free text	0,1	http://purl.org/dc/terms/description
	ServeWithDishes	Name of dish with which this dish should be served	non-literal value - text string	Controlled name value selected from Thesaurus of Dishes	0+	
	DietaryCategory	Dietary restriction category. Examples include Low-fat, vegan, low-sodium	non-literal value - text string	Controlled name value selected from Diet thesaurus	0+	
	DifficultyCategory	Level of difficulty of preparation. Record if given in recipe source. Do not supply.	non-literal value - text string	Controlled value: easy, medium, difficult, expert	0,1	
	PrepTime	Total preparation time.	literal - time	Time value. Time interval given in format hh:mm	0,1	RecipeML <preptime> element
	PrepTimeActive	Total preparation time requiring action/attention from cook.	literal - time	Time value. Time interval given in format hh:mm	0,1	
	PrepTimeInactive	Total preparation time not requiring action/attention from cook.	literal - time	Time value. Time interval given in format hh:mm	0,1	
	MainIngredient	Name of main ingredient. This ingredient is normally named in the title. If not, choose the ingredients included in highest quantity. Include up to 3 but no more than 3.	non-literal value - text string	Term selected from Food Thesaurus	0,1,2,3	
	Ingredients	Contains list of all ingredients and associated information	(other elements only)		1	
	IngredientItem	Describes one ingredient from ingredient list. Is a container to hold together preferred/alternate options for that ingredient. For example, if you can use vanilla extract or amaretto, vanilla would be recorded as Ingredient and amaretto would be recorded as AlternateIngredient within the same IngredientItem "bag".	(other elements only)		1+	
	Ingredient	Describes one ingredient from ingredient list. If an alternate is given, record the preferred or first given ingredient here.	(other elements only)		1	
	IngredientName	Name of ingredient called for.	non-literal value - text string	Controlled value: Term selected from Food Thesaurus	1	
	IngredientDescriptor	Term or phrase describing nature of ingredient	non-literal value - text string	Controlled value: Term selected from Food Thesaurus	0+	
	Amount		(other elements only)		1	
	IngredientAmountUnit	Unit in which amount is measured (cups, teaspoons, etc)	non-literal value - text string	Controlled value: Term selected from Ontology of units	0,1	

IngredientAmountQuantity	Quantity of units of ingredient called for (.5, 3)	literal - floating pt number	Numeric, float point	1	
	Term or descriptive phrase describing size, or other quantitative information about amount of ingredient (small, to taste)	literal - text string	TextString	0,1	
IngredientAmountDescriptor					
	If a quantity range is given, enter adjustment quantity here. The lower amount is entered in the above fields. The difference between the lower amount and the upper amount is entered here. Enter number only. Assumption is that unit is the same as IngredientAmountUnit. If not, calculate conversion.	literal - floating pt number	Numeric, float point	0,1	
IngredientAmountAdjustment					
	Term describing how the cook should prepare the ingredient for use. Not for describing the ingredient as purchased or supplied (IngredientDescriptor would be used instead)	non-literal value - text string	Controlled value: Term selected from Cooking Thesaurus	0,1	
IngredientPrePrep					
AlternateIngredient	Describes one or more alternate or substitution ingredients or preparations of ingredient	(Has same elements as IngredientItem)		0+	
OptionalIngredient	Signifies whether the ingredient is optional or not	Boolean (yes/no)		1	
RecipeSteps	Contains list of all recipe steps.	(other elements only)		1	
RecipeStep	Contains one recipe step, and if applicable, its alternatives/options.	(other elements only)		1+	
DefaultStep	Describes default or basic version of recipe step	(other elements only)		1	
Narrative	Textual description of how to carry out step	non-literal value - text string		1	
	Describes the action a cook takes in this step. This is a physical action done by the cook, as opposed to a chemical reaction resulting from combination from ingredients or exposure to heat. The latter are Transformations. Sauteeing is a transformation, while stirring occasionally during sauteeing is an Action for the cook.	(other elements only)		0+	
Action					
ActionName	Term describing action cook takes in this step (stirring, whipping, kneading)	non-literal value - text string	Controlled value: Term selected from Cooking Thesaurus	1	
ActionModifier	Term describing how the action should be done (vigorously, gently, continuously, frequently)	non-literal value - text string	Controlled value: Term selected from Cooking Thesaurus	1	
ActionDuration	Time interval for which action should be undertaken	literal - time	Time value. Time interval given in format hh:mm	0,1	
ActionDurationOffset	If range of time is given for duration, give difference between shorter and longer intervals here.	literal - time	Time value. Time interval given in format hh:mm	0,1	
ActionCeaseSign	Description of how cook will know to stop. Often given instead of or as supplement to time instructions. (until stiff peaks, until dough holds together)	literal - text string		0,1	
Transformation	Describes process of chemical reaction caused by some combination of ingredients, time, environment, exposure to heat, etc. More accurately, it describes what situation the cook must set up so that the transformation may take place.	(other elements only)		0,1	
TransformationName	Name of transformation (bake, chill, rise)	non-literal value - text string	Controlled value: Term selected from Cooking Thesaurus	1	
TransformationTemp	Temperature at which food should be placed for transformation	(other elements only)		0,1	
TemperatureUnit	Temperature unit used	non-literal value - text string	Controlled value from units ontology	1	
TemperatureQuantity	Temperature quantity given	literal - integer		1	
TransformationDescription	How the transformation should be carried out (over high heat, place pan of water in bottom of stove while baking)	literal - text string		0,1	
TransformationLocationDescription	Where the transformation will occur (in warm draft-free place, in freezer)	literal - text string		0,1	
TransformationDuration	Time interval for transformation	literal - time	Time value. Time interval given in format hh:mm	0,1	
TransformationDurationOffset	If range of time is given for transformation, give difference between shorter and longer intervals here.	literal - time	Time value. Time interval given in format hh:mm	0,1	
TransformationCeaseSign	Description of how cook will know to end transformation (until doubled in size, until golden brown, until soft-frozen)	literal - text string		0+	
AlternativeStep	If there is another way to carry out a step, the alternative is recorded here.	(Has same elements as DefaultStep)		0+	
OptionalStep	Is this step optional or not?	Boolean (yes/no)		1	
Yield	Describes how much the recipe yields	(other elements only)		0+	RecipeML <yield> element

YieldUnit	Unit in which amount is given (loaves, cups, servings)	non-literal value - text string	Controlled value: Term selected from Ontology of units	1
YieldQuantity	Quantity of yield units	literal - floating pt number		1
YieldDescriptor	Term or descriptive phrase describing size, or other quantitative information about amount of yield (small, heaping)	literal - text string		0+