## Ingredient Substitutions

The substituted food may not perform exactly as the original food. Each ingredient has specific functions in a recipe, and a substitute may alter the flavor, color, texture, or volume, but still result in an acceptable product.

\begin{tabular}{|c|c|c|c|c|c|}
\hline Ingredient \& Amount \& Substitutes \& Ingredient \& Amount \& Substitutes \\
\hline Allspice \& I teaspoon \& - I/2 teaspoon cinnamon and I/2 teaspoon ground cloves \& Chocolate chips, \& I ounce \& - I ounce sweet cooking chocolate \\
\hline Apple pie spice \& I teaspoon \& - I/2 teaspoon cinnamon, I/4 teaspoon nutmeg, and I/8 teaspoon cardamom \& Chocolate, semisweet \& I 2/3 ounces \& - I ounce unsweetened chocolate and 4 teaspoons sugar \\
\hline Arrowroot starch \& I I/2 teaspoon \& \begin{tabular}{l}
- I tablespoon flour \\
- I I/2 teaspoons cornstarch
\end{tabular} \& Chocolate, semisweet chips, melted \& 6-ounce package \& - 2 squares unsweetened chocolate, 2 tablespoons shortening, and I/2 cup sugar \\
\hline \multirow[t]{5}{*}{Baking powder} \& \multirow[t]{5}{*}{I teaspoon} \& \multirow[t]{5}{*}{\begin{tabular}{l}
- I/4 teaspoon baking soda and 5/8 teaspoon cream of tartar \\
- I/4 teaspoon baking soda and I/2 cup sour milk or buttermilk (decrease liquid called for in recipe by I/2 cup) \\
- I/4 teaspoon baking soda and I/2 teaspoon lemon juice or vinegar used with sweet milk to make I/2 cup (decrease liquid called for in recipe by \(1 / 2\) cup)
\end{tabular}} \& Chocolate, unsweetened \& I square or I ounce \& - 3 tablespoons cocoa and I tablespoon fat \\
\hline \& \& \& Cocoa \& I/4 cup or 4 tablespoons \& - I ounce (square) chocolate (decrease fat called for in recipe by I/2 tablespoon) \\
\hline \& \& \& Coconut \& I tablespoon grated, dry \& - I I/2 tablespoons fresh grated coconut \\
\hline \& \& \& Coconut cream \& I cup \& - I cup whipping cream \\
\hline \& \& \& Coconut milk \& I cup \& - I cup whole or \(2 \%\) milk \\
\hline Bay leaf \& I whole \& - I/4 teaspoon crushed \& \& cup \& \\
\hline \multirow[t]{2}{*}{Beau Monde seasoning} \& \multirow[t]{2}{*}{I teaspoon} \& \multirow[t]{2}{*}{\begin{tabular}{l}
- I teaspoon seasoning or seasoned salt \\
- I/2 teaspoon table salt \\
- I/2 teaspoon Mei Yen seasoning
\end{tabular}} \& self-rising \& Icup \& I I/2 tablespoons baking powder, and I/2 teaspoon salt \\
\hline \& \& \& Corn syrup \& I cup \& - I cup sugar and I/4 cup liquid (use whatever liquid is called for in the recipe) \\
\hline \multirow[t]{2}{*}{Brandy} \& \multirow[t]{2}{*}{I/4 cup} \& \multirow[t]{2}{*}{- I teaspoon brandy extract plus enough water or liquid called for in recipe to make I/4 cup} \& \& \& - I cup honey \\
\hline \& \& \& Cornstarch \& I tablespoon \& - 2 tablespoons all-purpose flour \\
\hline \multirow[t]{3}{*}{Broth, beef or chicken} \& \multirow[t]{3}{*}{I cup} \& \multirow[t]{3}{*}{\begin{tabular}{l}
- I bouillon cube dissolved in I cup boiling water \\
- I envelope powdered broth base dissolved in I cup boiling water \\
- I teaspoon powdered broth base dissolved in I cup boiling water
\end{tabular}} \& (for thickening) \& \& - 2 tablespoons granulated tapioca \\
\hline \& \& \& Cracker crumbs \& 3/4 cup \& - I cup dry bread crumbs \\
\hline \& \& \& Cream, half-and-half \& I cup \& - 7/8 cup milk and I/2 tablespoon butter or margarine \\
\hline \multirow[t]{2}{*}{Butter} \& \multirow[t]{2}{*}{I cup} \& \multirow[t]{2}{*}{\begin{tabular}{l}
- 7/8 to I cup hydrogenated fat and \(\mathrm{I} / 2\) teaspoon salt \\
- 7/8 cup lard plus \(1 / 2\) teaspoon salt \\
- I cup margarine
\end{tabular}} \& \& \& \begin{tabular}{l}
- I cup evaporated milk, undiluted \\
- I/2 cup coffee cream plus I/2 cup milk
\end{tabular} \\
\hline \& \& \& Cream, heavy (36\% to 40\% fat) \& I cup \& - \(3 / 4\) cup milk and I/3 cup butter or margarine (for use in cooking or baking) \\
\hline Chicken stock base, instant \& \begin{tabular}{l}
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teaspoons
\end{tabular} \& - I chicken bouillon cube \& \multirow[t]{2}{*}{Cream, light (18\% to 20\% fat)} \& \multirow[t]{2}{*}{I cup} \& \multirow[t]{2}{*}{\begin{tabular}{l}
- \(3 / 4\) cup milk and 3 tablespoons butter or margarine (for use in cooking or baking) \\
- I cup evaporated milk, undiluted
\end{tabular}} \\
\hline Chicken stock base, instant \& I tablespoon dissolved in I cup water \& - I cup canned or homemade chicken broth or chicken stock \& \& \& \\
\hline Chili sauce \& I cup \& - I cup tomato sauce, I/4 cup brown sugar, 2 tablespoons vinegar, I/4 teaspoon cinnamon, dash of ground cloves, and dash of allspice \& Cream, whipped \& Any amount

3 heads \& - Chill I3-ounce can of evaporated milk for 12 hours. Add I teaspoon lemon juice. Whip until stiff. <br>
\hline Chives, finely chopped \& 2 teaspoons \& - 2 teaspoons green onion tops, finely chopped \& or dried \& - \& <br>
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\end{tabular}

| Ingredient | Amount | Substitutes | Ingredient | Amount | Substitutes |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Egg | I whole (3 tablespoons) | - 3 tablespoons and I teaspoon thawed frozen egg <br> - 2 I/2 tablespoons sifted, dry whole egg powder and 2 I/2 tablespoons warm water <br> - 2 yolks and I tablespoon water (in cookies) <br> - 2 yolks (in custards, cream fillings, and similar mixtures) <br> - Soften I tablespoon unflavored gelatin in 3 tablespoons cold water; add 3 teaspoons boiling water; cool and beat until frothy; add to recipe (reduce other liquid by 2 tablespoons) <br> - I/4 cup commercial egg substitute | Flour, self-rising | I cup | - I cup minus 2 teaspoons all-purpose flour, I I/2 teaspoons baking powder, and I/2 teaspoon salt |
|  |  |  | Flour, whole wheat | Any amount | - Substitute whole wheat flour for I/4 to I/2 of the white flour called for in a recipe |
|  |  |  | Garlic | I clove, small | - I/8 teaspoon garlic powder or instant minced garlic <br> - I/2-I teaspoon garlic salt (reduce amount of salt called for in recipe) |
|  |  |  | Gelatin, flavored | 3-ounce package | - I tablespoon plain gelatin and 2 cups fruit juice |
|  |  |  | Ginger | I/8 teaspoon, powdered | - I tablespoon candied ginger rinsed in water to remove sugar |
| Egg white | I white (2 tablespoons) | - 2 tablespoons thawed frozen egg white <br> - 2 teaspoons sifted, dry egg white powder and 2 tablespoons lukewarm water |  |  | and finely cut <br> - I tablespoon raw ginger |
|  |  |  | Herbs, fresh | I tablespoon finely cut | I teaspoon dried herbs |
| Egg yolk | I yolk (I I/2 teaspoons) | - 2 tablespoons sifted dry egg yolk powder and 2 teaspoons water <br> - I I/3 tablespoons thawed frozen egg yolk | Honey | I cup | - I I/4 cup sugar and I/4 cup liquid (use liquid called for in recipe) |
|  |  |  | Horseradish | I tablespoon fresh | - 2 tablespoons bottled |
| Flour, all-purpose (for thickening) | I tablespoon | - I I/2 teaspoons cornstarch, arrowroot starch, potato starch, or rice starch <br> - I tablespoon granular tapioca <br> - I tablespoon waxy rice flour <br> - I tablespoon waxy corn flour <br> - 2 tablespoons browned flour <br> - I I/2 tablespoons whole wheat flour and I/2 tablespoon all purpose flour | Ketchup | I cup | - I cup tomato sauce, I/2 cup sugar, and 2 tablespoons vinegar (for use in cooking) |
|  |  |  | Lemon | I teaspoon juice | -1/2 teaspoon vinegar |
|  |  |  | Lemon | I medium | - 2-3 tablespoons juice and I-2 teaspoons rind |
|  |  |  | Lemon peel, dried | I teaspoon | - I-2 teaspoons grated fresh lemon peel <br> - Grated peel of I medium lemon |
| Flour, all-purpose Note: Specialty flours added to yeast bread recipes will result in a reduced volume and heavier product | I cup, sifted | - I cup and 2 tablespoons cake flour <br> - I cup minus 2 tablespoons unsifted all-purpose flour <br> - I I/2 cup bread crumbs <br> - I cup rolled oats <br> - I/3 cup cornmeal or soybean flour and $2 / 3$ cup all-purpose flour <br> - I/2 cup cornmeal, bran, rice flour, rye flour, or whole wheat flour and I/2 cup all-purpose flour <br> - 3/4 cup whole wheat flour or bran flour and I/4 cup all-purpose flour <br> - I cup rye or rice flour <br> - I/4 cup soybean flour and 3/4 cup all-purpose flour |  |  | - 1/2 teaspoon lemon extract |
|  |  |  | Macaroni, (4 cups cooked) | 2 cups uncooked | - 2 cups spaghetti, uncooked <br> - 4 cups noodles, uncooked |
|  |  |  | Maple sugar | I/2 cup | - I cup maple syrup and reduce liquid in recipe by $1 / 4$ cup |
|  |  |  | Maple sugar (grated and packed) | I tablespoon | - I tablespoon white, granulated sugar |
|  |  |  | Maple syrup | About 2 cups | - Combine 2 cups sugar and I cup water, bring to clear boil; take off heat; add I/2 teaspoon maple flavoring |
|  |  |  | Marshmallows, miniature | I cup | - 10 large |
|  |  |  | Mayonnaise (for use in salads and salad dressings | I cup | - I/2 cup yogurt and I/2 cup mayonnaise <br> - I cup sour cream |
| Flour, cake | I cup sifted | - I cup minus 2 tablespoons sifted all-purpose flour |  |  |  |




