

**Changes to legislation:** There are currently no known outstanding effects for the Commission Delegated Regulation (EU) 2016/127, ANNEX III. (See end of Document for details)

## ANNEX III

**INDISPENSABLE AND CONDITIONALLY  
INDISPENSABLE AMINO ACIDS IN BREAST MILK**

For the purposes of point 2 of Annexes I and II, breast milk shall be used as reference protein as set out in Sections A and B of this Annex, respectively.

- A. Infant formula and follow-on formula manufactured from cows' milk or goats' milk proteins and infant formula and follow-on formula manufactured from soya protein isolates, alone or in a mixture with cows' milk or goats' milk proteins

For the purposes of points 2.1 and 2.2 of Annexes I and II, the indispensable and conditionally indispensable amino acids in breast milk, expressed in mg per 100 kJ and 100 kcal, are the following:

	<b>Per 100 kJ<sup>a</sup></b>	<b>Per 100 kcal</b>
<b>Cysteine</b>	9	38
<b>Histidine</b>	10	40
<b>Isoleucine</b>	22	90
<b>Leucine</b>	40	166
<b>Lysine</b>	27	113
<b>Methionine</b>	5	23
<b>Phenylalanine</b>	20	83
<b>Threonine</b>	18	77
<b>Tryptophan</b>	8	32
<b>Tyrosine</b>	18	76
<b>Valine</b>	21	88

<sup>a</sup> 1 kJ = 0,239 kcal.

- B. Infant formula and follow-on formula manufactured from protein hydrolysates

For the purposes of point 2.3 of Annexes I and II, the indispensable and conditionally indispensable amino acids in breast milk, expressed in mg per 100 kJ and 100 kcal, are the following:

	<b>Per 100 kJ<sup>a</sup></b>	<b>Per 100 kcal</b>
<b>Arginine</b>	16	69
<b>Cysteine</b>	6	24
<b>Histidine</b>	11	45
<b>Isoleucine</b>	17	72
<b>Leucine</b>	37	156

<sup>a</sup> 1 kJ = 0,239 kcal.

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<b>Lysine</b>	29	122
<b>Methionine</b>	7	29
<b>Phenylalanine</b>	15	62
<b>Threonine</b>	19	80
<b>Tryptophan</b>	7	30
<b>Tyrosine</b>	14	59
<b>Valine</b>	19	80

**a** 1 kJ = 0,239 kcal.

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