

# Overview on Tolerable Upper Intake Levels as derived by the Scientific Committee on Food (SCF) and the EFSA Panel on Dietetic Products, Nutrition and Allergies (NDA)

The Tolerable Upper Intake Level (UL) is the maximum level of total chronic daily intake of a nutrient (from all dietary sources) which is not expected to pose a risk of adverse health effects to humans (EFSA NDA Panel, 2024a).

Following a request from the European Commission, the Scientific Committee on Food (SCF), which was the predecessor of EFSA, started off in the year 2000 with giving scientific advice in relation to ULs for vitamins and minerals. The task was then taken over by EFSA when it became operational. As a result, EFSA and the SCF published a report of their first series of scientific opinions on ULs for vitamins and minerals in 2006 (EFSA, 2006). The report also covered trace elements such as boron, nickel, tin and vanadium.

Updates of individual scientific opinions were then carried out by the EFSA NDA Panel for calcium (2012); vitamin D (2012, 2018 (infants) and 2023); selenium, vitamin B6, folate and manganese (2023); iron, vitamin A and  $\beta$ -carotene (2024). The EFSA Scientific Committee updated the scientific opinion on fluoride in 2025. For nutrients for which there are insufficient data on which to base the UL, the European Commission requested EFSA to provide "an indication [...] on the highest level of intake for which there is reasonable confidence on the absence of adverse effects. This is called a safe level of intake. Safe levels of intake have more limited applications than ULs as intakes above the safe levels of intake do not necessarily mean that there is a risk of adverse effects and these values cannot be used to characterise the proportion of the population at risk of adverse effects.

Other re-evaluations are on-going. This document will be updated accordingly.

This document provides an overview about the outcome of the SCF's and EFSA's scientific deliberations. The detailed reasoning for establishing individual values can be found in the related opinions of the SCF and NDA Panel.

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## Summary of Tolerable Upper Intake Levels

Table 1: Tolerable Upper Intake Levels for **minerals**

	Unit	4-6 mo <sup>(a)</sup>	7-11 mo <sup>(b)</sup>	1-3 y	4-6 y	7-10 y	11-14 y	15-17 y	Adults	Pregnancy	Lactation	Ref
<b>Boron</b>	mg/d			3	4	5	7	9	10	10	10	(EFSA NDA panel, 2004b)
<b>Calcium</b>	mg/d	No adequate data to derive a UL							2500	2500	2500	(EFSA NDA Panel, 2012b)
<b>Chloride</b>		No adequate data to derive a UL										(EFSA NDA panel, 2005b)
<b>Chromium<sup>(c)</sup></b>		No adequate data to derive a UL										(SCF, 2003c)
<b>Copper<sup>(d)</sup></b>	mg/d			1	2	3	4	4	5	ND		(SCF, 2003a)
<b>Iodine</b>	µg/d			200	250	300	450	500	600	600	600	(SCF, 2003b)
<b>Iron<sup>(e)</sup></b>		No adequate data to derive a UL										(EFSA NDA Panel, 2024b)
<b>Manganese<sup>(f)</sup></b>		No adequate data to derive a UL										(EFSA NDA Panel, 2023b)
<b>Magnesium<sup>(g)</sup></b>	mg/d			ND	250	250	250	250	250	250	250	(SCF, 2001b)
<b>Molybdenum</b>	mg/d			0.1	0.2	0.25	0.4	0.5	0.6	0.6	0.6	(SCF, 2000a)
<b>Nickel</b>		No adequate data to derive a UL										(EFSA NDA Panel, 2005a)
<b>Phosphorus</b>		No adequate data to derive a UL										(EFSA NDA panel, 2005d)
<b>Potassium</b>		No adequate data to derive a UL										(EFSA NDA panel, 2005c)
<b>Selenium</b>	µg/d	45	55	70	95	130	180	230	255	255	255	(EFSA NDA Panel, 2023c)
<b>Silicon</b>		No adequate data to derive a UL										(EFSA NDA Panel, 2004c)
<b>Sodium</b>		No adequate data to derive a UL										(EFSA NDA Panel, 2005e)
<b>Tin</b>		No adequate data to derive a UL										(EFSA NDA Panel, 2005f)
<b>Vanadium</b>		No adequate data to derive a UL										(EFSA NDA Panel, 2004d)
<b>Zinc</b>	mg/d			7	10	13	18	22	25	25	25	(SCF, 2002c)
		<b>&lt; 1 y</b>		<b>1-3 y</b>	<b>4-8 y</b>	<b>9-17 y</b>			<b>Adults</b>	<b>Pregnancy</b>	<b>Lactation</b>	
<b>Fluoride<sup>(h)</sup></b>	mg/d	1.0		1.6	2.0	ND			ND	ND	ND	(EFSA SC, 2025)

d, day; mo: month; ND: not defined; y, year

(a): i.e. from the 18<sup>th</sup> to the 26<sup>th</sup> week of life

(b): i.e. the second half of the first year of life (from the 27<sup>th</sup> to the 52<sup>th</sup> week of life)

(c): Trivalent chromium (Cr III)

(d): In 2023, the EFSA Scientific Committee established an Acceptable Daily Intake (ADI) of 0.07 mg/kg body weight copper (EFSA Scientific Committee, 2023).

(e): As there were insufficient data on which to base the UL for iron, safe levels of intakes were established (see Table 2).

(f): As there were insufficient data on which to base the UL for manganese, safe levels of intakes were established (see Table 2).

(g): Readily dissociable Mg salts (e.g. chloride, sulphate, aspartate, lactate) and compounds like MgO in food supplements, water or added to foods; does not include Mg naturally present in foods and beverages.

(h): For children aged 9 years of age and adults, safe levels of intake are established (Table 2).



## Summary of Tolerable Upper Intake Levels

Table 2: Safe levels of intake for **minerals**

**Safe levels of intake:** For nutrients for which there are insufficient data on which to base the UL, the European Commission requested EFSA to provide “an indication [...] on the highest level of intake for which there is reasonable confidence on the absence of adverse effects. This is called a safe level of intake. Safe levels of intake have more limited applications than ULs: intakes above the safe levels of intake do not necessarily mean that there is a risk of adverse effects and these values cannot be used to characterise the proportion of the population at risk of adverse effects.

	Unit	4-6 mo <sup>(a)</sup>	7-11 mo <sup>(b)</sup>	1-3 y	4-6 y	7-10 y	11-14 y	15-17 y	Adults	Pregnancy	Lactation	Ref
<b>Iron</b>	mg/d	5 <sup>(c)</sup>	5 <sup>(c)</sup>	10	15	20	30	35	40	40	40	(EFSA NDA Panel, 2024b)
		<b>4-12 mo</b>		<b>1-2 y</b>	<b>3-6 y</b>	<b>7-13 y</b>		<b>14-17 y</b>	<b>Adults</b>	<b>Pregnancy</b>	<b>Lactation</b>	
<b>Manganese</b>	mg/d	2		4	5	6		7	8	8	8	(EFSA NDA Panel, 2023b)
		<b>&lt; 1 y</b>		<b>1-3 y</b>	<b>4-8 y</b>	<b>9-17 y</b>			<b>Adults</b>	<b>Pregnancy</b>	<b>Lactation</b>	
<b>Fluoride<sup>(d)</sup></b>	mg/d	ND		ND	ND	3.3			3.3	3.3	3.3	(EFSA SC, 2025)

d, day; mo: month; ND: not defined; y, year

(a): i.e. from the 18<sup>th</sup> to the 26<sup>th</sup> week of life

(b): i.e. the second half of the first year of life (from the 27<sup>th</sup> to the 52<sup>th</sup> week of life)

(c): For children less than one year of age, safe levels of supplemental intake are given and apply to iron intakes from food supplements and fortified foods (infant and follow-on formulas are excluded).

(d): For infants, toddlers and children aged less than 9 years of age, tolerable upper intake levels are established (Table 1).



## Summary of Tolerable Upper Intake Levels

Table 3: Tolerable Upper Intake Levels for **vitamins**

	Unit	4-6 mo <sup>(a)</sup>	7-11 mo <sup>(b)</sup>	1-3 y	4-6 y	7-10 y	11-14 y	15-17 y	Adults	Pregnancy	Lactation	Ref
<b>Biotin</b>		No adequate data to derive a UL										(SCF, 2001a)
<b>β-Carotene<sup>(c)</sup></b>		No adequate data to derive a UL										EFSA NDA Panel, 2024
<b>Folate<sup>(d)</sup></b>	µg/d	200	200	200	300	400	600	800	1000	1000	1000	(EFSA NDA Panel, 2023a)
<b>Niacin</b>												(SCF, 2002a)
<b>Nicotinamide</b>	mg/d											
<b>Nicotinic acid</b>	mg/d											
<b>Pantothenic acid</b>		No adequate data to derive a UL										(SCF, 2002b)
<b>Vitamin A<sup>(e)</sup></b>	µg RE/d	600	600	800	1100	1500	2000	2600	3000	3000	3000	(EFSA NDA Panel, 2024c)
<b>Vitamin B1</b>		No adequate data to derive a UL										(SCF, 2001c)
<b>Vitamin B12</b>		No defined adverse effects										(SCF, 2000c)
<b>Vitamin B2</b>		No adequate data to derive a UL										(SCF, 2000b)
<b>Vitamin B6</b>	mg/d	2.2	2.5	3.2	4.5	6.1	8.6	10.7	12	12	12	(EFSA NDA Panel, 2023d)
<b>Vitamin C</b>		No adequate data to derive a UL										(EFSA NDA Panel, 2004a)
<b>Vitamin E<sup>(f)</sup></b>	mg/d			100	120	160	220	260	300	300	300	(SCF, 2003d)
<b>Vitamin K</b>		No adequate data to derive a UL										(SCF, 2003e)
		0-6 mo	7-11 mo <sup>(b)</sup>	1-3 y	4-6 y	7-10 y	11-14 y	15-17 y	Adults	Pregnancy	Lactation	
<b>Vitamin D</b>	µg VDE <sup>(g)</sup> /d	25	35	50	50	50	100	100	100	100	100	(EFSA NDA Panel, 2018, 2023e)

d, day; mo, month; RE, retinol equivalents; VDE, vitamin D equivalent; y, year

(a): i.e. from the 18<sup>th</sup> to the 26<sup>th</sup> week of life

(b): i.e. the second half of the first year of life (from the 27<sup>th</sup> to the 52<sup>th</sup> week of life)

(c): Smokers should avoid consuming food supplements containing β-carotene. The Panel also considers that the use of supplemental β-carotene (i.e., in fortified foods and/or food supplements) by the general population should be limited to the purpose of meeting vitamin A requirements.

(d): ULs apply to the combined intake of folic acid, (6S)-5-methyltetrahydrofolic acid glucosamine and l-5-methyltetrahydrofolic acid calcium salts added to foods or used in food supplements, under their authorised conditions of use; do not include folate naturally present in foods and beverages.

(e): ULs apply to preformed vitamin A, i.e. retinol and retinyl esters.

(f): A review of the ULs for vitamin E is on-going.

(g): 1 µg VDE = 1 µg cholecalciferol (vitamin D3) = 1 µg ergocalciferol (vitamin D2) = 0.4 µg calcidiol monohydrate = 40 IU. This applies to calcidiol monohydrate at doses up to 10 µg/day.



## Summary of Tolerable Upper Intake Levels

Table 4: **Other nutrients**

		Ref
<b>Total fat</b>	No adequate data to derive a UL for any age group	(EFSA NDA Panel, 2010)
<b>Saturated fatty acids</b>	No adequate data to derive a UL for any age group	(EFSA NDA Panel, 2010)
<b>Proteins</b>	No adequate data to derive a UL for any age group	(EFSA NDA Panel, 2012a)
<b>DHA, EPA, DPA</b>	No adequate data to derive a UL for any age group	(EFSA NDA Panel, 2012c)
<b>Sugars</b>	No adequate data to derive a UL for any age group	(EFSA NDA Panel, 2022)

d, day; DHA, docosahexaenoic acid, DPA, docosapentaenoic acid; EPA, eicosapentaenoic acid

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