

## Cálculo dígito verificador de códigos GTIN

### How to calculate a check digit manually

ID Key Format	Digit positions																	
GTIN-8										N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	N <sub>4</sub>	N <sub>5</sub>	N <sub>6</sub>	N <sub>7</sub>	N <sub>8</sub>	
GTIN-12							N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	N <sub>4</sub>	N <sub>5</sub>	N <sub>6</sub>	N <sub>7</sub>	N <sub>8</sub>	N <sub>9</sub>	N <sub>10</sub>	N <sub>11</sub>	N <sub>12</sub>
GTIN-13					N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	N <sub>4</sub>	N <sub>5</sub>	N <sub>6</sub>	N <sub>7</sub>	N <sub>8</sub>	N <sub>9</sub>	N <sub>10</sub>	N <sub>11</sub>	N <sub>12</sub>	N <sub>13</sub>	
GTIN-14				N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	N <sub>4</sub>	N <sub>5</sub>	N <sub>6</sub>	N <sub>7</sub>	N <sub>8</sub>	N <sub>9</sub>	N <sub>10</sub>	N <sub>11</sub>	N <sub>12</sub>	N <sub>13</sub>	N <sub>14</sub>	
GSIN		N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	N <sub>4</sub>	N <sub>5</sub>	N <sub>6</sub>	N <sub>7</sub>	N <sub>8</sub>	N <sub>9</sub>	N <sub>10</sub>	N <sub>11</sub>	N <sub>12</sub>	N <sub>13</sub>	N <sub>14</sub>	N <sub>15</sub>	N <sub>16</sub>	N <sub>17</sub>
SSCC	N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	N <sub>4</sub>	N <sub>5</sub>	N <sub>6</sub>	N <sub>7</sub>	N <sub>8</sub>	N <sub>9</sub>	N <sub>10</sub>	N <sub>11</sub>	N <sub>12</sub>	N <sub>13</sub>	N <sub>14</sub>	N <sub>15</sub>	N <sub>16</sub>	N <sub>17</sub>	N <sub>18</sub>

**Step 1:** Multiply value of each position by

x3    x1    x3

**Step 2:** Add results together to create **sum**

**Step 3:** Subtract the sum from nearest equal or higher multiple of ten = **Check Digit**

The following table gives an example to illustrate how a GTIN-13 Check Digit is calculated:

ID Key Format	N <sub>1</sub>	N <sub>2</sub>	N <sub>3</sub>	N <sub>4</sub>	N <sub>5</sub>	N <sub>6</sub>	N <sub>7</sub>	N <sub>8</sub>	N <sub>9</sub>	N <sub>10</sub>	N <sub>11</sub>	N <sub>12</sub>	N <sub>13</sub>
Number <b>without</b> Check Digit	6	2	9	1	0	4	1	5	0	0	2	1	-
<b>Step 1:</b> Multiply by	x	x	x	x	x	x	x	x	x	x	x	x	-
<b>Step 2:</b> Add results	=	=	=	=	=	=	=	=	=	=	=	=	-
to create <b>sum</b>	6	6	9	3	0	12	1	15	0	0	2	3	=57

**Step 3:** Subtract the **sum** from nearest equal or higher multiple of ten = 60- 57 = 3 (Check Digit)

Number <b>with</b> Check Digit	6	2	9	1	0	4	1	5	0	0	2	1	<b>3</b>
--------------------------------	---	---	---	---	---	---	---	---	---	---	---	---	----------

Fuente oficial: <https://www.gs1.org/services/how-calculate-check-digit-manually>