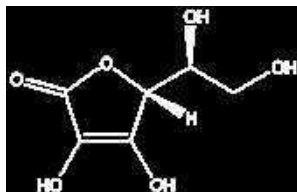


L(+)-ASCORBIC ACID

AC0515 L(+)-Ascorbic acid, ExpertQ®, for analysis, ACS, ISO



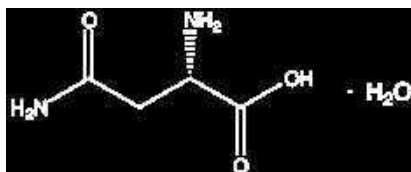
- Synonyms: Vitamin C, 3-Oxo-L-gulonic acid-g-lactone
- $C_6H_8O_6$
- $M = 176,13 \text{ g/mol}$
- CAS [50-81-7]
- EINECS-No.: 200-066-2
- Solub. in water: (24 °C): 330 g/l
- Melting point: 190 - 192 °C (decomposes)
- Ignition temp.: 380 °C
- LD 50 (oral, rat): 11900 mg/kg
- Tariff number: 2936 27 00 00
- Applications: synthesis of organic products, for pharmaceutical use, antioxidant (in food industry), in biochemistry.

assay (iodometric) min. 99,7 %
 identity (IR-spectrum) passes test
 specific rotation ($[\alpha]_{20}^D$, $c = 10, \text{H}_2\text{O}$) + 20,5° - + 21,5°
 insoluble in water max. 0,01 %
 pH (5 %, H_2O) 2,2 - 2,5
 chlorides (Cl) max. 0,005 %
 sulfates (SO_4) max. 0,002 %
 copper (Cu) max. 0,3 ppm
 heavy metals (as Pb) max. 0,001 %
 iron (Fe) max. 2 ppm
 lead (Pb) max. 0,001 %
 nickel (Ni) max. 0,001 %
 residue on ignition max. 0,05 %
 loss on drying (105 °C) max. 0,1 %

ART. NO.	VOLUME	CONTAINER
AC05150100	100 g	Ⓟ
AC05150250	250 g	Ⓟ
AC05151000	1 kg	Ⓟ
AC0515005P	5 kg	Ⓟ
AC0515025P	25 kg	Ⓟ

L-ASPARAGINE MONOHYDRATE

AS0015 L-Asparagine monohydrate, extra pure, Phampur®, Ph Eur, BP



- Synonyms: Asparaginic acid semiamide
- $C_4H_8N_2O_3 \cdot \text{H}_2\text{O}$
- $M = 150,14 \text{ g/mol}$
- CAS [5794-13-8]
- EINECS-No.: 200-735-9
- Solub. in water: (20 °C): 22 g/l
- Melting point: 215 - 217 °C (decomposes)
- Tariff number: 2924 19 00 90
- Applications: in biochemistry, for pharmaceutical use, in food industry, synthesis of organic products, in pharma industry.

assay (titration with HClO_4 , on dried sample) 99,0 - 101,0%
 identification passes test
 appearance of solution clear and colourless
 specific rotation ($[\alpha]_{20}^D$, $c = 10, \text{HCl } 309 \text{ g/l}$ on dried sample) + 33,7° - + 36,0°
 pH (2%, H_2O) 4,0 - 6,0
 chlorides (Cl) max. 200 ppm
 sulfates (SO_4) max. 200 ppm
 ammonium (NH_4) max. 0,1%
 iron (Fe) max. 10 ppm
 related substances passes test
 residue on ignition max. 0,1%
 loss on drying (130 °C) 10,5 - 12,5%
 Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

ART. NO.	VOLUME	CONTAINER
AS00150025	25 g	Ⓟ
AS00150100	100 g	Ⓟ
AS00151000	1 kg	Ⓟ
AS0015025P	25 kg	Ⓟ