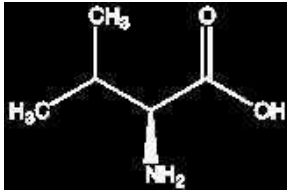


## L-VALINE

VA0055 L-Valine, extra pure, Phampur®, Ph Eur, BP, USP



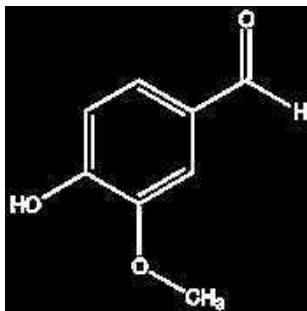
- Synonyms: 2-Aminoisovaleric acid, (S)-2-Amino-3-methylbutanoic acid
- $C_6H_{11}NO_2$
- $M = 117,15 \text{ g/mol}$
- CAS [72-18-4]
- EINECS-No.: 200-773-6
- Solub. in water: (20 °C): 85 g/l
- Melting point: ~ 315 °C
- Tariff number: 2922 49 95 90
- Applications: in biochemistry, synthesis of organic products, for pharmaceutical use, in pharma industry.

assay (titr. with  $HClO_4$ , referred to dried sample) . . . . . 98,5 - 101,0 %  
 identification . . . . . passes test  
 appearance of solution . . . . . passes test  
 specific rotation ( $[\alpha]_{20}^D$ ,  $c = 8$ , HCl 250g/l on dried substance) . . . . . + 26,5° - + 29,0°  
 specific rotation ( $[\alpha]_{25}^D$ ;  $c = 8$ , HCl 6N) . . . . . + 26,6° - + 28,8°  
 pH (5 %,  $H_2O$ ) . . . . . 5,5 - 7,0  
 chlorides (Cl) . . . . . max. 200 ppm  
 sulfates ( $SO_4$ ) . . . . . max. 300 ppm  
 ammonium ( $NH_4$ ) . . . . . max. 0,02 %  
 iron (Fe) . . . . . max. 10 ppm  
 ninhydrin-positive substances . . . . . passes test  
 residue on ignition . . . . . max. 0,1 %  
 loss on drying (105 °C) . . . . . max. 0,3 %  
 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
VA00550025	25 g	Ø
VA00550100	100 g	Ø

## VANILLIN

VA0025 Vanillin, EssentQ®



- Synonyms: 4-Hydroxy-3-methoxybenzaldehyde
- $C_8H_8O_3$
- $M = 152,15 \text{ g/mol}$
- CAS [121-33-5]
- EINECS-No.: 204-465-2
- Solub. in water: (25 °C): 10 g/l
- Melting point: ~ 82 °C
- Boiling point: (13 hPa) ~ 154 °C
- Flash pt. 153 °C
- Ignition temp.: > 400 °C
- Vapour pressure: (65 °C) 0,17 hPa
- LD 50 (oral, rat): 3978 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P330 - P301 + P312 - P501a
- Tariff number: 2912 41 00 00
- Applications: synthesis of organic products, in food industry, in the pharmaceuticals industry, cosmetics, perfumery.

assay (acidimetric, on dried sample) . . . . . 99 - 101 %  
 identity (IR-spectrum) . . . . . passes test  
 appearance of solution (5%, ethanol 96 %) . . . . . passes test  
 melting range . . . . . 81 - 83 °C  
 reaction to  $H_2SO_4$  . . . . . passes test  
 residue on ignition . . . . . max. 0,05 %  
 loss on drying . . . . . max. 1 %

ART. NO.	VOLUME	CONTAINER
VA00250100	100 g	Ø
VA00250250	250 g	Ø
VA00251000	1 kg	Ø

## VASELINE

VA0150 Vaseline, white, EssentQ®

- CAS [8009-03-8]
- EINECS-No.: 295-456-2
- Solub. in water: (20 °C): insoluble
- Melting point: 40 - 60 °C
- Flash pt. 243 °C
- Refraction index: ( $n_{60}^D$ ) 1,460 - 1,474
- Tariff number: 2712 10 90 00
- Applications: analytical chemistry, cosmetics, in the pharmaceuticals industry.

melting range . . . . . 38 - 60 °C  
 acidity or alkalinity . . . . . passes test  
 oils, fats, resins . . . . . passes test  
 organic acid. . . . . max. 0,001 %  
 residue on ignition . . . . . max. 0,01 %

ART. NO.	VOLUME	CONTAINER
VA01500250	250 g	Ø
VA01501000	1 kg	Ø
VA0150005P	5 kg	Ø