



**PRODUCT CODE: 63B764**

**6-Aminohexanoic Acid (Ph. Eur., BP, USP) IPEC grade**

$C_6H_{13}NO_2$

M.= 131,18

CAS [60-32-2]

EINECS 200-469-3

TARIC 2922 49 85 90

**SYNONYMS:** 6-Aminocaproic Acid, EACA, e-Aminocaproic Acid

**PHYSICAL DATA:** crystalline powder, White, in water at 20°C Thermal decom. > 200 °C • M.P.: 205 °C • pH(5% solution)7,0 - 7,5 • Flash P.:207 °C •

**BIBLIOGRAPHY:** Merck Index **13**, 431 Sax 6205 • Beilstein **4 IV** , **2695** • BRN 906872 • BP.**2023** • USP **43** • Ph. Eur. **10.0** (2019) **11.0** (2023) •

**HAZARDOUS:** RTECS: MO6300000 • LD50 oral dog >7.000 mg/kg • LD50 oral mus 14.300 mg/kg • LD50 oral rat 3.400 mg/kg • LD50 ivn mus 4.900 mg/kg LD50 ipr rat 7.000 mg/kg LD50 ivn rat 3.300 mg/kg

#### SPECIFICATIONS:

Assay (Perchl. Ac.) calc. a.d.s.	98,5-101,0%
Assay (HPLC.) calc. a.d.s.	98,5-101,5%
Identity :	
Identity according to Pharmacopoeias:	
Identity IR	passes test
Identity (B Ph. Eur)	passes test
Identity (C Ph. Eur)	passes test
Identity (D Ph. Eur)	passes test
pH sol. 20%	7,5-8,0

#### Maximum limit of impurities

ABS	
at $\lambda$ 287 nm 20% sol.	0,10

at $\lambda$ 450 nm 20% sol.	0,03
at $\lambda$ 287 nm (98-102°C , 72 h, 20% sol.)	0,15
at $\lambda$ 450 nm (98-102°C , 72 h, 20% sol.)	0,03
Appearance of solution	
Appearance Colourless (initial, 24h)	passes test
Appearance Clear (initial, 24h) (< formazin I)	passes test
Loss on drying at 105°C	0,5%
Residue on ignition (as SO <sub>4</sub> )	0,1 %
Residual solvents (Ph.Eur/USP)	passes test
Ninhydrin positive substances	0,5%
Water (H <sub>2</sub> O)	0,5%

Elemental impurities (ICH Q3D):

Class 1	
As	1,5 ppm
Cd	0,5 ppm
Hg	1,5 ppm
Pb	0,5 ppm
Class 2A	
Co	10 ppm
Ni	25 ppm
V	25 ppm
Class 2B	
Ag	10 ppm
Au	10 ppm
Ir	10 ppm
Os	10 ppm
Pd	10 ppm
Pt	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	10 ppm
Class 3	
Ba	10 ppm
Cr	25 ppm
Cu	250 ppm
Li	10 ppm
Mo	25 ppm
Sb	10 ppm
Sn	30 ppm