



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.**2021** • USP **42** • Ph. Eur. **9.0** (2017) **10.0** (2020) •

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 λ 287 nm 20% sol.	0,10

at λ 450 nm 20% sol.	0,03
at λ 287 nm (98-102°C , 72 h, 20% sol.)	0,15
at λ 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 ₄)	0,1 %
Residual solvents (Ph.Eur/USP)	passes test
Ninhydrin positive substances	0,5%
Water (H ₂ O)	0,5%
Residual metals ICP: (according to EMA/CHMP/SWP/4446/2000)	
Class 1A (Pt, Pd)	10 ppm
Class 1B (Ir, Rh, Ru, Os)	10 ppm
Class 1C (Mo, Ni, Cr, V)	25 ppm
Class 2 (Cu, Mn)	250 ppm
Class 3 (Fe, Zn)	1.300 ppm