



>>Entry Name: 6-Aminohexanoic acid, 9CI

ENTRY UNDER REVIEW

Synonym(s): Aminocaproic acid, BAN, INN, USAN. Amicar. Caprocid. Epsikapron. ε-Leucine. CL 10304. CY 116. NSC 26154. Ipsilon. Acepramin. Aminokapron

CAS Registry Number: 60-32-2

Extra CAS Registry Numbers(s): 1319-82-0

$\text{H}_2\text{NCH}_2(\text{CH}_2)_4\text{COOH}$

Molecular Formula:  $\text{C}_6\text{H}_{13}\text{NO}_2$

Molecular Weight: 131.174

Accurate Mass: 131.094629

Percentage Composition: C 54.94%; H 9.99%; N 10.68%; O 24.39%

Source/Synthesis: Manuf. by hydrol. of Hexahydro-2*H*-azepin-2-one [DBR16-B](#). Coml. available as the free base, the hydrochloride, or the hydrobromide

Use/Importance: Haemostatic, antifibrinolytic agent

Physical Description: Leaflets

Melting Point: Mp 204-206°

Solubility: Sol.  $\text{H}_2\text{O}$ ; insol. EtOH

pKa Value:  $\text{p}K_{\text{a}1}$  4.43;  $\text{p}K_{\text{a}2}$  10.75

Calculated Log P Data: Log P -2.28 (calc)

Other Data: Polym. on heating to give Nylon-6. Low acute tox.

**Hazard & Toxicity:** Eye irritant

Aldrich: A4460-6

Fluka: 7260

Sigma: A2504

>>Derivative: Hydrochloride

CAS Registry Number: 4321-58-8

Physical Description: Cryst. ( $\text{H}_2\text{O}$ )

Melting Point: Mp 131-132°

>>Derivative: Hydrobromide

Physical Description: Cryst. (EtOH/Et<sub>2</sub>O)

Melting Point: Mp 105°

>>Derivative: Me ester

CAS Registry Number: 2780-89-4

Molecular Formula:  $\text{C}_7\text{H}_{15}\text{NO}_2$

Molecular Weight: 145.201

Accurate Mass: 145.110279

Percentage Composition: C 57.90%; H 10.41%; N 9.65%; O 22.04%

Boiling Point: Bp 75-78°

>>Derivative: Me ester; hydrochloride

CAS Registry Number: 1926-80-3

Physical Description: Cryst. (MeOH/Me<sub>2</sub>CO)

Melting Point: Mp 121-122°

Fluka: 7270

>>Derivative: Et ester

CAS Registry Number: 371-34-6

Molecular Formula:  $\text{C}_8\text{H}_{17}\text{NO}_2$

Molecular Weight: 159.228

Accurate Mass: 159.125929

Percentage Composition: C 60.35%; H 10.76%; N 8.80%; O 20.10%

Boiling Point: Bp<sub>1</sub> 80-82°

>>Derivative: Et ester; hydrochloride

CAS Registry Number: 3633-17-8

Melting Point: Mp 58°