

Table 1.3. The chemical data for amlodipine

IUPAC name	( <i>RS</i> )-3-ethyl 5-methyl 2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate
Chemical formula	C <sub>20</sub> H <sub>25</sub> ClN <sub>2</sub> O <sub>5</sub>
Molecular weight	408.879 g/mol
Melting point	133 – 135 °c
Appearance	White powder
Storage	20-25 °C
pK <sub>a</sub>	8.7
Solubility	Soluble in DMSO (≥20 mg/mL), water (10 mM), chloroform, ethanol (≥14 mg/mL), and methanol.