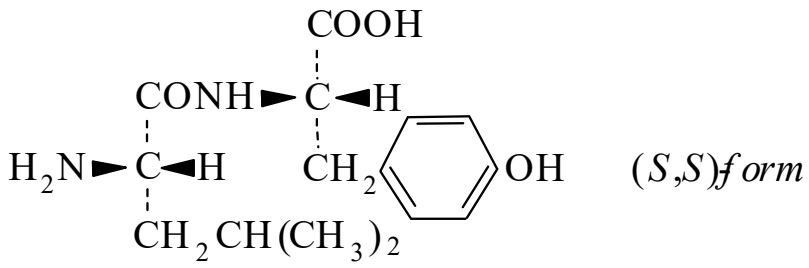
>>**Entry Name:** ***N*-Leucyltyrosine**



Molecular Formula: $C_{15}H_{22}N_2O_4$
Molecular Weight: 294.35
Accurate Mass: 294.157958
Percentage Composition: C 61.21%; H 7.53%; N 9.52%; O 21.74%

>>**Variant:** (*S*,*S*)-form
Synonym(s): L-L-form

CAS Registry Number: 968-21-8
Molecular Formula: $C_{15}H_{22}N_2O_4$
Molecular Weight: 294.35
Accurate Mass: 294.157958
Percentage Composition: C 61.21%; H 7.53%; N 9.52%; O 21.74%
Physical Description: Cryst. + $2H_2O$
Melting Point: Mp 275-277°
Optical Rotation: $[\alpha]_D^{20}$+11.3
Solubility: Sol. H_2O, spar. sol. EtOH
pKa Value: pK_{a1} 3.46; pK_{a2} 7.84; pK_{a3} 10.09 (25°)
Sigma: L0501

>>**Derivative:** *N*-*tert*-Butyloxycarbonyl, Me ester

Melting Point: Mp 113-114°

>>**Derivative:** *N*-Benzyloxycarbonyl-*O*-*tert*-butyl methyl ester

Melting Point: Mp 87-89°

>>**Variant:** (*R*)-(*S*)-form
Synonym(s): D-Leucyl-L-tyrosine

CAS Registry Number: 3303-29-5
Molecular Formula: $C_{15}H_{22}N_2O_4$
Molecular Weight: 294.35
Accurate Mass: 294.157958
Percentage Composition: C 61.21%; H 7.53%; N 9.52%; O 21.74%
Physical Description: Powder + $2H_2O$ (Et_2O/EtOH)
Melting Point: Mp 250-260 dec.°
Optical Rotation: $[\alpha]_D^{20}$–16
pKa Value: pK_{a3} 10.35
Sigma: L3877

References:

Abderhalden, E. *et al.*, *Chem. Zentralbl.*, 1930, **2**, 2271; 1931, **1**, 2210
Kinoshita, M. *et al.*, *Annalen*, 1966, **696**, 226
Pettit, G.R. *et al.*, *Org. Mass Spectrom.*, 1970, **3**, 67