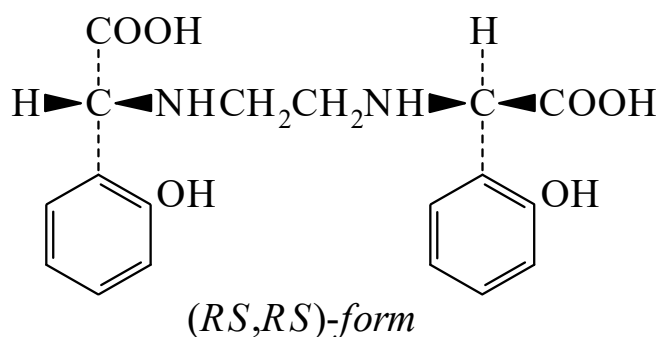




>>Entry Name: *N,N'*-Ethylenebis[2-(*o*-hydroxyphenyl)glycine]

Synonym(s): Ethylenediamine-*N,N'*-bis[α -(2-hydroxyphenylacetic acid)]. α,α' -(1,2-Ethanediyldiimino)bis[2-hydroxybenzeneacetic acid], 9CI



CAS Registry Number: 1170-02-1

Molecular Formula: $C_{18}H_{20}N_2O_6$

Molecular Weight: 360.366

Accurate Mass: 360.132138

Percentage Composition: C 59.99%; H 5.59%; N 7.77%; O 26.64%

Use/Importance: Multidentate ligand. Complexing agent used for titrimetric detn. of Fe

Solubility: Sol. alkalis

pKa Value: pK_{a1} 6.39; pK_{a2} 8.78; pK_{a3} 10.56; pK_{a4} 11.85 (0.1M KNO_3)

Aldrich: 28585-4

Sigma: E4135

>>Variant: *(RS,RS)*-form

Synonym(s): ($\pm$)-form

CAS Registry Number: 81944-54-9

Molecular Formula: $C_{18}H_{20}N_2O_6$

Molecular Weight: 360.366

Accurate Mass: 360.132138

Percentage Composition: C 59.99%; H 5.59%; N 7.77%; O 26.64%

Physical Description: Microcryst.

Melting Point: Mp 234-236 dec. $^{\circ}$

Other Data: Known in opt. active forms

>>Variant: *(RS,SR)*-form

Synonym(s): *meso*-form

CAS Registry Number: 81944-53-8

Molecular Formula: $C_{18}H_{20}N_2O_6$

Molecular Weight: 360.366

Accurate Mass: 360.132138

Percentage Composition: C 59.99%; H 5.59%; N 7.77%; O 26.64%

Melting Point: Mp 249 dec. $^{\circ}$

References:

Ryskiewich, D.P. *et al.*, *Nature (London)*, 1962, **193**, 472, (*resoln*)

Anderegg, G. *et al.*, *Helv. Chim. Acta*, 1964, **47**, 1067

Sugura, K. *et al.*, *Nippon Kagaku Zasshi*, 1968, **89**, 853, (*use, ir, uv*)

Bailey, N.A. *et al.*, *Inorg. Chim. Acta*, 1981, **50**, 111, (*use, synth, cryst struct, resoln, ir*)

Patch, H.G. *et al.*, *Inorg. Chem.*, 1982, **21**, 2972, (*use, resoln, tlc, uv, pmr, epr*)

Wilson, J.G., *Aust. J. Chem.*, 1987, **40**, 1695, (*synth, pmr*)

Bannochie, C.J. *et al.*, *J.A.C.S.*, 1989, **111**, 4735, (*resoln, use*)