STEREOCHEMISTRY ABSTRACTS





































Tricarbonyl(3-methyl-1-phenethyl-5-phenyl-

1-azapenta-1,2,4-triene)iron(0)

C. J. Richards and S. E. Thomas





trans-2-methyl-2-ethyl-4-phenylbut-3-enoic acid

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C15H22O

trans-2-methyl-2-(1,1-dimethylethyl)-4-phenyl-but-3-enol

Tetrahedron: Asymmetry 1992, 3, 143

E.e. > 95% (by derivatisation) D.e. > 99% (by ¹H n.m.r.)

 $[\alpha]_{589}^{23} = -1127 (c \ 0.2 \text{ in MeOH})$

Source of chirality: (S)-(-)- α -methylbenzylamine

Absolute configuration: 5S, 1'S

(assigned by correlation with X-ray analysis)

Tetrahedron: Asymmetry 1992, 3, 143

E.e. = 96% [by ¹H n.m.r. of amide formed with (S)-(-)- α -methylbenzylamine] [α]546²² = +10 (c 0.1 in CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: R

Tetrahedron: Asymmetry 1992, 3, 143

E.e. > 97% (by ¹H n.m.r. of Mosher's ester) [α]₅₈₉²² = +37 (c 0.1 in MeOH) Source of chirality: asymmetric synthesis Absolute configuration: *R*