

U.S. Patent 14/898,925

Visit www.strem.com for new product information and a searchable catalog.

Strem Chemicals, Inc.
7 Mulliken Way
Newburyport, MA 01950
U.S.A
Tel: 978.499.1600
Fax: 978.465.3104
Email: info@strem.com

Strem Chemicals, Inc.
15, rue de l'Atome
Zone Industrielle
67800 BISCHHEIM France
Tel: (33) 03 88 62 52 60
Fax: (33) 03 88 62 26 81
Email: info.europe@strem.com

Strem Chemicals, Inc.
Postfach 1215
77672 KEHL
Germany
Tel: 0 78 51/ 7 58 79
Email: info.europe@strem.com

Strem Chemicals UK Ltd.
An Independent Distributor of Strem Chemicals Products
Newton Hall, Town Street
Newton, Cambridge
England CB22 7ZE
Tel: 0845 643 7263
Fax: 0845 643 7362
Email: enquiries@strem.co.uk

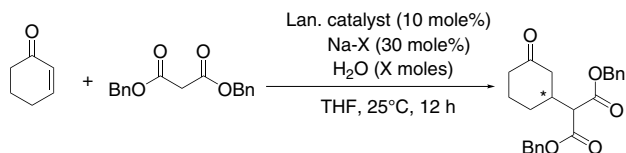
Rare-Earth BINOLate Compounds

LANTHANUM

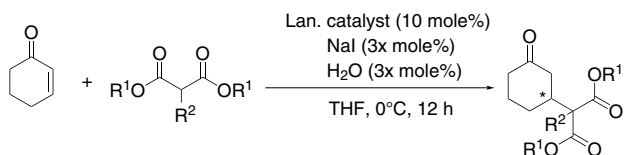
57-1250 **NEW** **Tris[N,N,N,N-tetramethylguanidinium][tris(1S)-(1,1'-binaphalene)-2,2'-diolato]lanthanate La-HTMG-B** (1611526-71-6) 250mg
1g
 $C_{75}H_{78}N_9O_6La$; FW: 1340.38; tan powd.

Technical Notes:

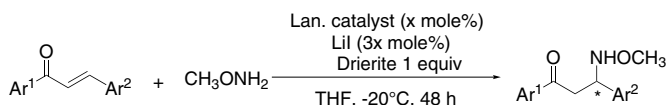
1. Catalyst used for an asymmetric Michael addition.
2. Catalyst used for an asymmetric Michael addition of 1,3-dicarbonyls to enones.
3. Catalyst used for the asymmetric aza-Michael addition of methylhydroxylamine to chalcone derivatives.
4. Catalyst used for the asymmetric direct aldol reaction of acetophenone and pivaldehyde.



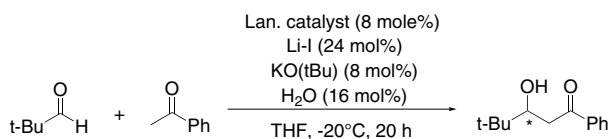
Tech. Note (1)
Ref. (1)



Tech. Note (2)
Ref. (1)



Tech. Note (3)
Ref. (1)



Tech. Note (4)
Ref. (1)

References:

1. *J. Am. Chem. Soc.*, **2014**, 136, 8034.

PRASEODYMIUM

59-1000 **NEW** **Tris[N,N,N,N-tetramethylguanidinium][tris(1S)-(1,1'-binaphalene)-2,2'-diolato]praseodymate Pr-HTMG-B** 250mg
1g
 $C_{75}H_{78}N_9O_6Pr$; FW: 1342.38; off-white powd.

Technical Note:

1. See 57-1250

YTTERBIUM

70-0130 **NEW** **Tris[N,N,N,N-tetramethylguanidinium][tris(1S)-(1,1'-binaphalene)-2,2'-diolato]ytterbate Yb-HTMG-B** (1611526-75-0) 250mg
1g
 $C_{75}H_{78}N_9O_6Yb$; FW: 1374.52; off-white to pale yellow powd.

Technical Note:

1. See 57-1250

YTTRIUM

39-5850 **NEW** **Tris[N,N,N,N-tetramethylguanidinium][tris(1S)-(1,1'-binaphalene)-2,2'-diolato]yttrate Y-HTMG-B** (1611526-73-8) 250mg
1g
 $C_{75}H_{78}N_9O_6Y$; FW: 1290.39; orange powd.

Technical Note:

1. See 57-1250

Visit www.strem.com for new product information and a searchable catalog.

Strem Chemicals, Inc.
7 Mulliken Way
Newburyport, MA 01950
U.S.A.
Tel: 978.499.1600
Fax: 978.465.3104
Email: info@strem.com

Strem Chemicals, Inc.
15, rue de l'Atome
Zone Industrielle
67800 BISCHHEIM France
Tel: (33) 03 88 62 52 60
Fax: (33) 03 88 62 26 81
Email: info.europe@strem.com

Strem Chemicals, Inc.
Postfach 1215
77672 KEHL
Germany
Tel: 0 78 51/ 7 58 79
Email: info.europe@strem.com

Strem Chemicals UK Ltd.
An Independent Distributor of Strem Chemicals Products
Newton Hall, Town Street
Newton, Cambridge
England CB22 7ZE
Tel: 0845 643 7263
Fax: 0845 643 7362
Email: enquiries@strem.co.uk