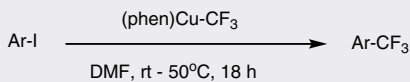
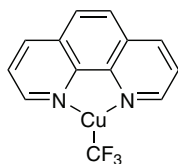
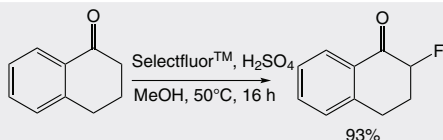
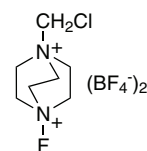


Reagent used for the perfluoromethylation of arenes and aryl bromides and iodides.



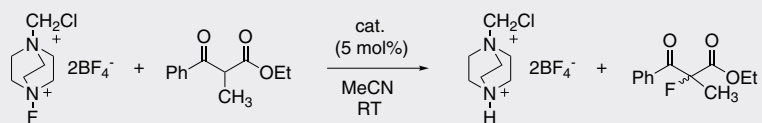
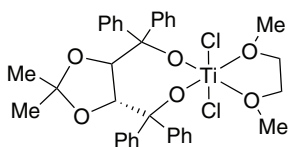
29-6720 Trifluoromethylator®

Reagent for electrophilic fluorination.



07-0332 SelectFluor®

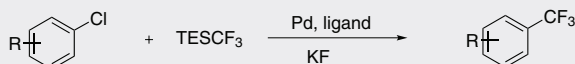
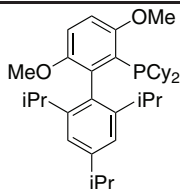
Catalyst used in the enantioselective fluorination of β -ketoesters.



22-0780 Togni Catalyst

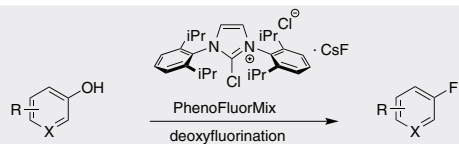
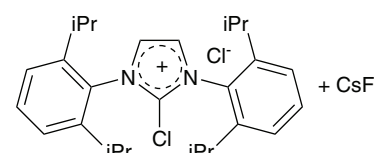
See also 22-0761

Ligand for the palladium-catalyzed trifluoromethylation of aryl chlorides



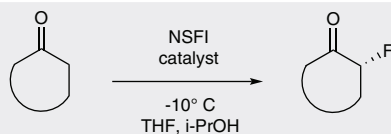
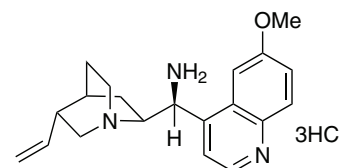
15-1152 BrettPhos

PhenoFluorMix is a bench-stable mixture of 07-0620 and cesium fluoride used for the deoxyfluorination of phenols, heterocyclic alcohols and structurally complex alcohols.



07-4055 PhenoFluor®Mix

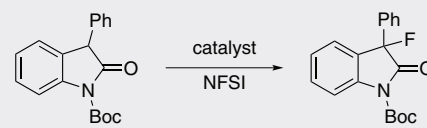
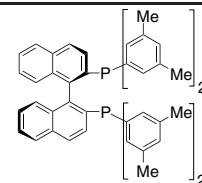
Catalyst used in the α -fluorination of cyclic ketones.



07-1710 Cinchona alkaloid-derived Organocatalyst

See also 07-1718, 07-1715 & 07-1722

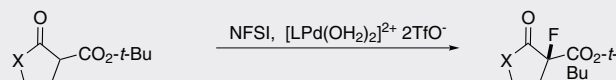
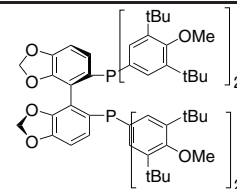
Ligand used in the enantioselective fluorination of oxindoles



15-0476 (R)-(+)-XyIBINAP

See also 15-0477, 15-0066 & 15-0067

Ligand for enantioselective fluorination of β -keto esters, tert-butoxycarbonyl lactones and lactams with Sodeoka's Pd-aqua complex and a fluorinating reagent.



15-0066 (R)-(-)-DTBM-SEGPHOS®

See also 15-0067

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

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Email: enquiries@strem.co.uk

ALUMINUM (Compounds)

93-1312	Aluminum fluoride, anhydrous, 98.5% (7784-18-1)	10g
	AlF ₃ ; FW: 83.98; white powdr.; m.p. 1291° subl. <i>moisture sensitive</i>	50g

ANTIMONY (Compounds)

93-5132	Antimony(III) fluoride, 98% (7783-56-4)	50g
HAZ	SbF ₃ ; FW: 178.75; off-white powdr.; m.p. 292°; b.p. 319° subl.; d. 4.379 <i>moisture sensitive</i>	250g

CERIUM (Compounds)

58-0500	Cerium(IV) fluoride, anhydrous, 99% (10060-10-3)	10g
	CeF ₄ ; FW: 216.13; white powdr.; m.p. 650° dec. <i>hygroscopic</i>	50g

CESIUM (Compounds)

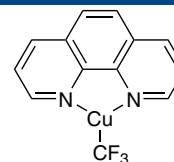
93-5519	Cesium fluoride (99+%-Cs) (13400-13-0)	25g
HAZ	CsF; FW: 151.90; white powdr.; m.p. 682°; b.p. 1251°; d. 4.115 <i>hygroscopic</i>	100g

COBALT (Compounds)

93-2740	Cobalt(III) fluoride, 99% (10026-18-3)	10g
HAZ	CoF ₃ ; FW: 115.93; tan powdr.; d. 3.88 <i>hygroscopic</i>	50g

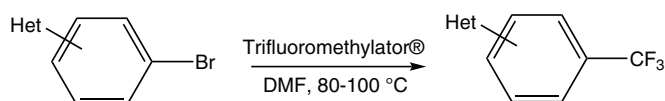
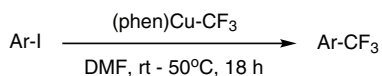
COPPER (Compounds)

29-6720	Trifluoromethyl(1,10-phenanthroline) copper(I), 95% Trifluoromethylator®	250mg
	(1300746-79-5) (C ₁₂ H ₈ N ₂)CuCF ₃ ; FW: 312.76; brown solid <i>air sensitive, moisture sensitive, (store cold)</i> Note: Sold under license from CATYLIX.	1g
		5g
		25g



Technical Notes:

1. Reagent used for the perfluoromethylation of arenes and aryl bromides and iodides.
2. Catalyst used in the copper-mediated perfluoroalkylation of heteroaryl bromides.



69 examples
up to 99%

Tech. Note (1)
Ref. (1,2)

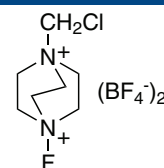
Tech. Note (2)
Ref. (3)

References:

1. *Angew. Chem. Int. Ed.*, **2011**, *50*, 3793.
2. *Angew. Chem. Int. Ed.*, **2012**, *51*, 536.
3. *Org. Lett.*, **2014**, *16*, 1744.

NITROGEN(Compounds)

07-0332	1-(Chloromethyl)-4-fluoro-1,4-diazoniabicyclo[2.2.2]octane bis(tetrafluoroborate), min. 97% SelectFluor® (140681-55-6)	5g
	(C ₇ H ₁₄ ClFN ₂)(BF ₄) ₂ ; FW: 354.26; white to off-white powdr. <i>moisture sensitive</i>	25g
	For detailed technical note visit strem.com .	100g
		500g



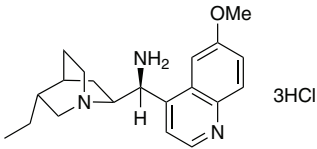
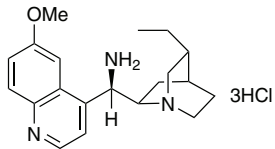
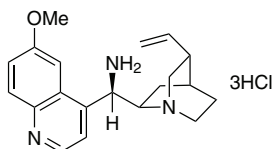
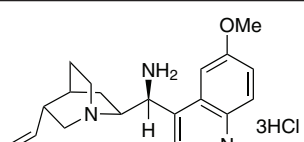
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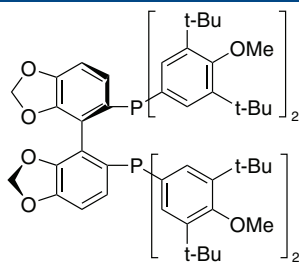
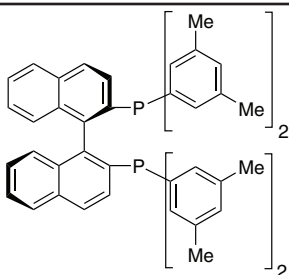
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07-1718	(8α, 9S)-10,11-Dihydro-6'-methoxycinchonan-9-amine trihydrochloride, min. 90% (852913-53-2) C ₂₀ H ₂₇ N ₃ O·3HCl; FW: 434.83; white to off-white powdr. (store cold) For detailed technical note visit strem.com .		100mg 500mg
07-1722	(9R)-10,11-Dihydro-6'-methoxycinchonan-9-amine trihydrochloride, min. 90% (931098-92-9) C ₂₀ H ₂₇ N ₃ O·3HCl; FW: 434.83; white to off-white powdr. (store cold) For detailed technical note visit strem.com .		100mg 500mg
07-1715	(8α, 9R)-6'-Methoxycinchonan-9-amine trihydrochloride, min. 90% (1391506-12-9) C ₂₀ H ₂₅ N ₃ O·3HCl; FW: 432.81; white to off-white powdr. (store cold) For detailed technical note visit strem.com .		100mg 500mg
07-1710	(8α, 9S)-6'-Methoxycinchonan-9-amine trihydrochloride, min. 90% (1231763-32-8) C ₂₀ H ₂₅ N ₃ O·3HCl; FW: 432.81; pale yellow powdr. (store cold) For detailed technical note visit strem.com .		100mg 500mg

PHOSPHORUS (Compounds)

15-0066	(R)-(-)-5,5'-Bis[di(3,5-di-t-butyl-4-methoxyphenyl)phosphino]-4,4'-bi-1,3-benzodioxole, min. 98% (R)-(-)-DTBM-SEGPHOS® (566940-03-2) C ₇₄ H ₁₀₀ O ₈ P ₂ ; FW: 1179.53; off-white powdr.; m.p. 126-128° Note: Manufactured under license of Takasago patent. Takasago SEGPHOS® Ligand Kit component. For detailed technical note visit strem.com .		250mg 1g 5g
15-0067	(S)-(+)-5,5'-Bis[di(3,5-di-t-butyl-4-methoxyphenyl)phosphino]-4,4'-bi-1,3-benzodioxole, min. 98% (S)-(+)-DTBM-SEGPHOS® (210169-40-7) C ₇₄ H ₁₀₀ O ₈ P ₂ ; FW: 1179.53; off-white powdr.; m.p. 126-128° Note: Manufactured under license of Takasago patent. Takasago SEGPHOS® Ligand Kit component. For detailed technical note visit strem.com .		250mg 1g 5g
15-0476	(R)-(+)-2,2'-Bis[di(3,5-xylyl)phosphino]-1,1'-binaphthyl, 98% (R)-(+)-XyIBINAP (137219-86-4) C ₅₂ H ₄₈ P ₂ ; FW: 734.90; white to pale yellow xtl.; m.p. 203-206° Note: Manufactured under license of Takasago patent. Takasago BINAP Ligand Kit component. For detailed technical note visit strem.com .		250mg 1g 5g
15-0477	(S)-(-)-2,2'-Bis[di(3,5-xylyl)phosphino]-1,1'-binaphthyl, 98% (S)-(-)-XyIBINAP (135139-00-3) C ₅₂ H ₄₈ P ₂ ; FW: 734.90; white to pale yellow xtl.; m.p. 203-206° Note: Manufactured under license of Takasago patent. Takasago BINAP Ligand Kit component.		250mg 1g 5g

Technical Note:

- See 15-0476 (page 3)

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

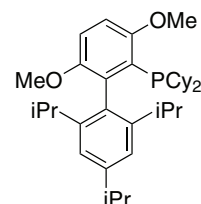
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15-1152 2-(Dicyclohexylphosphino)-3,6-dimethoxy-2',4',6'-tri-*i*-propyl-1,1'-biphenyl, min. 98% BrettPhos (1070663-78-3)
 $C_{35}H_{53}O_2P$; FW: 536.77; white xtl.; m.p. 191-193°
 Note: Buchwald Biaryl Phosphine Ligand Master Kit component.
 Buchwald Biaryl Phosphine Ligand Mini Kit 1 component..
 Patents: US 6,395,916, US 6,307,087.
 For detailed technical note visit strem.com.



250mg
1g
5g
25g
100g

POTASSIUM (Compounds)

93-1922 Potassium fluoride, anhydrous, 98% (7789-23-3) 25g
 HAZ KF; FW: 58.10; white powdr.; m.p. 846°; b.p. 1505°; d. 2.48 100g
hygroscopic 500g

93-1905 Potassium hydrogen fluoride, 99+% (7789-29-9) 500g
 HAZ KHF₂; FW: 78.11; white powdr.; m.p. 239° 2kg

SILICON (Compounds)

14-7990 Trifluoromethyltrimethylsilane, min. 97% (81290-20-2) 5g
 HAZ CF₃Si(CH₃)₃; FW: 142.20; colorless liq.; b.p. 45°; f.p. 14°F; d. 0.96 25g
moisture sensitive

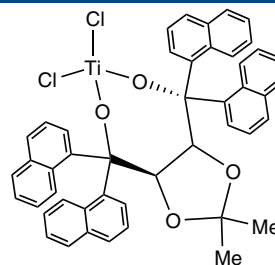
SILVER (Compounds)

93-4746 Silver(I) fluoride, 98% (7775-41-9) 5g
 HAZ AgF; FW: 126.87; yellow to brown solid; m.p. 435°; b.p. ~1159°; d. 5.852 25g
light sensitive, hygroscopic

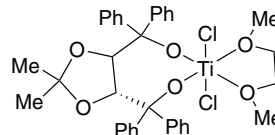
93-4747 Silver(II) fluoride, 98% (7783-95-1) 5g
 HAZ AgF₂; FW: 145.87; brown powdr.; m.p. 690°; b.p. 700° dec.; d. 4.58 25g
light sensitive, hygroscopic

TITANIUM (Compounds)

22-0761 (4R,5R)-(-)-2,2-Dimethyl- $\alpha,\alpha,\alpha',\alpha'$ -tetra(1-naphthyl)-1,3-dioxolane-4,5-dimethanolatotitanium(IV) dichloride acetonitrile adduct (197389-47-2) 250mg
 $[C_{47}H_{36}O_4]TiCl_2 \cdot CH_3CN$; FW: 783.58 (824.63); yellow powdr.
air sensitive, moisture sensitive 1g
 For detailed technical note visit strem.com.



22-0780 (4R,5R)-(-)-2,2-Dimethyl- $\alpha,\alpha,\alpha',\alpha'$ -tetraphenyl-1,3-dioxolane-4,5-dimethanolato[1,2-bis(dimethoxy)ethane]titanium(IV) dichloride acetonitrile adduct (328123-04-2) 250mg
 $[C_{31}H_{28}O_4][C_4H_{10}O_2]TiCl_2 \cdot CH_3CN$; FW: 673.45 (714.50); white xtl. 1g
air sensitive, moisture sensitive
 For detailed technical note visit strem.com.



XENON (Compounds)

54-1500 Xenon(II) fluoride, 99.5% (13709-36-9) 2g
 HAZ XeF₂; FW: 169.30; white xtl.; m.p. 128-130°; d. 4.32 10g
moisture sensitive, (store cold)
 Note: Packaged in PFA/FET bottle.

Technical Note:

- Xenon difluoride is a powerful fluorinating and oxidizing agent. Useful in the direct fluorination of alkenes and aromatics. Commercial uses include an etchant for silicon.

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