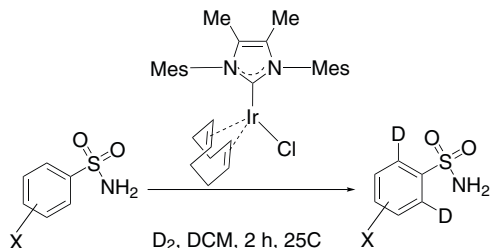


**77-1845 Chloro(1,5-cyclooctadiene)[4,5-dimethyl-1,3-bis(2,4,6-trimethylphenyl)imidazol-2-ylidene] iridium(I), min. 98%** 100mg  
 (1118917-09-1) 500mg  
 $C_{31}H_{40}ClIrN_2$ ; FW: 668.33; yellow powdr.; m.p. >200°C (dec)

Technical Note:

- Catalyst used for C-H Activation and Deuteration of Primary Sulfonamides.



Tech. Note (1)  
Ref. (1)

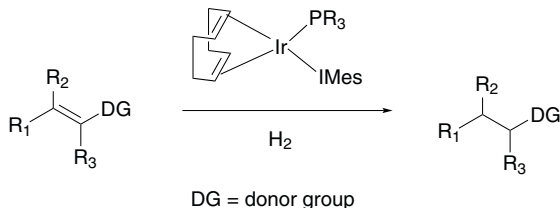
References:

- ACS Catalysis*, **2015**, *5*(1), 402-410.

**77-1850 Dimethylphenylphosphine(1,5-cyclooctadiene)[1,3-bis(2,4,6-trimethylphenyl)imidazol-2-ylidene] iridium(I) tetrakis(3,5-bis(trifluoromethyl)phenyl)borate, min. 98%** 100mg  
 (1884137-92-1) 500mg  
 $C_{37}H_{47}IrN_2P(C_{32}H_{12}BF_2)_4$ ; FW: 1606.18; red solid; m.p. 146-149°C

Technical Note:

- Catalyst for the chemoselective hydrogenation of olefins.



Tech. Note (1)  
Ref. (1)

References:

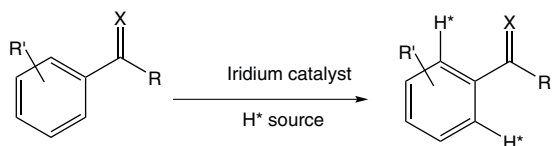
- Chemistry - A European Journal*, **2016**, *22*(14), 4738-4742.

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**77-1830 (Dimethylphenylphosphine)(1,5-cyclooctadiene)[1,3-bis(2,4,6-trimethylphenyl)imidazol-2-ylidene] iridium(I) hexafluorophosphate, min. 98% (1019853-03-2)** 100mg  
500mg  
[Ir(C<sub>8</sub>H<sub>12</sub>)(C<sub>21</sub>H<sub>24</sub>N<sub>2</sub>)(C<sub>8</sub>H<sub>11</sub>P)]<sup>+</sup>PF<sub>6</sub><sup>-</sup>; FW: 887.93; red xtl.

Technical Notes:

1. Highly active iridium(I) complex used for catalytic hydrogen isotope exchange.
2. Highly active iridium(I) complex used for catalytic hydrogenation processes.



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

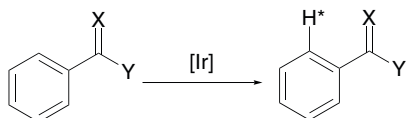
References:

1. *Chem. Commun.*, **2008**, 1115.
2. *J. Label. Compd. Radiopharm.*, **2010**, 53, 662.
3. *Chem. Commun.*, **2011**, 47, 11653.

**77-1810 Tribenzylphosphine(1,5-cyclooctadiene)[1,3-bis(2,4,6-trimethylphenyl)imidazol-2-ylidene]iridium(I) hexafluorophosphate, min. 98% (1019853-01-0)** 100mg  
500mg  
[Ir(C<sub>8</sub>H<sub>12</sub>)(C<sub>21</sub>H<sub>24</sub>N<sub>2</sub>)(C<sub>21</sub>H<sub>21</sub>P)]<sup>+</sup>PF<sub>6</sub><sup>-</sup>; FW: 1054.15; red xtl.

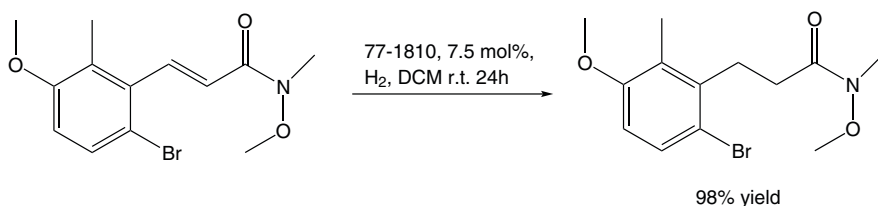
Technical Notes:

1. Catalyst used for hydrogen isotope exchange processes.
2. Catalyst for selective hydrogenation of carbon-carbon multiple bonds.



Tech. Note (1)  
Ref. (1-3)

Iridium-catalysed ortho-hydrogen isotope exchange



Tech. Note (2)  
Ref. (2)

References:

1. *Advanced Synthesis and Catalysis*, **2014**, 356(17), 3551.
2. *Chem. Commun.*, **2011**, 47, 11653.
3. *Chem. Commun.*, **2008**, 9, 1115.

**77-1840 Triphenylphosphine(1,5-cyclooctadiene)[1,3-bis(2,4,6-trimethylphenyl)imidazol-2-ylidene] iridium(I) tetrakis(3,5-bis(trifluoromethyl)phenyl)borate, min. 98% (1628471-64-6)** 100mg  
500mg  
C<sub>47</sub>H<sub>51</sub>IrN<sub>2</sub>P(C<sub>32</sub>H<sub>12</sub>BF<sub>24</sub>); FW: 1730.32; red solid; m.p. > 156°C (dec)

Technical Notes:

1. Catalyst used for hydrogen isotope exchange processes (Ref. 1, 5).
2. Catalysis of selective ortho-directed C-H activation with unprotected 2-aryltetrazoles are described (Ref. 2).
3. Catalyst for the chemoselective hydrogenation of olefins (Ref. 3).
4. Catalyst for the ortho-directed deuterium labelling of aromatic esters (Ref. 4).



Tech. Note (1)  
Ref. (1,5)

Iridium-catalysed ortho-hydrogen isotope exchange

References:

1. *Journal of Labelled Compounds and Radiopharmaceuticals*, **2016**, 59(14), 601-603.
2. *Chemical Communications*, **2016**, 52(40), 6669-6672.
3. *Chemistry - A European Journal*, **2016**, 22(14), 4738-4742.
4. *Molecules*, **2015**, 20(7), 11676-11698.
5. *Organic & Biomolecular Chemistry*, **2014**, 12(40), 7927-7931.

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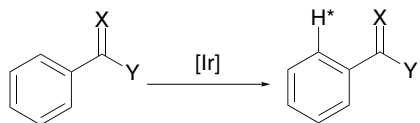
**77-1825 Triphenylphosphine(1,5-cyclooctadiene)[1,3-bis(2,4,6-trimethylphenyl)imidazol-2-ylidene]iridium(I) hexafluorophosphate, min. 98% (1019853-00-9)**

100mg  
500mg

$[\text{Ir}(\text{C}_8\text{H}_{12})(\text{C}_{21}\text{H}_{24}\text{N}_2)(\text{C}_{18}\text{H}_{15}\text{P})]^+\text{PF}_6^-$ ; FW: 1012.08; red xtl.

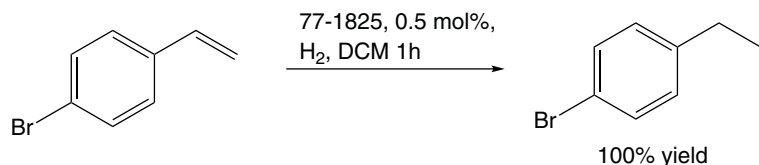
Technical Notes:

1. Catalyst used for hydrogen isotope exchange processes.
2. Catalyst for selective hydrogenation of carbon-carbon multiple bonds.



**Tech. Note (1)**  
**Ref. (1-3)**

Iridium-catalysed ortho-hydrogen isotope exchange



**Tech. Note (2)**  
**Ref. (2)**

References:

1. *Advanced Synthesis and Catalysis*, **2014**, 356(17), 3551.
2. *Chem. Commun.*, **2011**, 47, 11653.
3. *Chem. Commun.*, **2008**, 9, 1115.

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