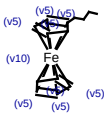
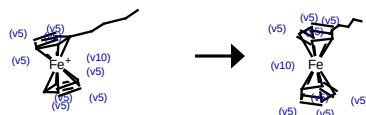
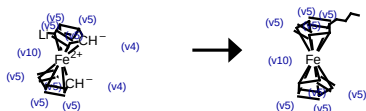


Query

	Query	Results	Date
1. Query	 Search as: Product, As drawn, No salts, No mixtures	15 reactions	2012-02-29 07h:40m:01s (EST)

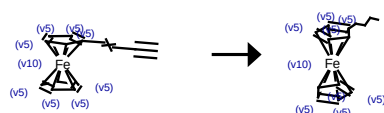

Rx-ID: 26537490 [View in Reaxys](#) 1/15

Yield	Conditions & References
	With sodium tetrahydroborate in not given Ellis, A. F.; Diss. Univ. of Illinois, Urbana, Ill., 1963, S. 1/132; Diss. Abstr.; vol. 24; (1963); p. 510 ; (from Gmelin) View in Reaxys
	With Fe(C₅H₄CH₃)₂ in propan-1-ol, water, Kinetics, byproducts: {Fe(C₅H₄CH₃)₂}(1+); 50 vol.-% n-C₃H₇OH, 50 vol.-% H₂O, 25.deg.C; Pladziewicz, J. R.; Espenson, J. H.; Journal of the American Chemical Society; vol. 95; (1973); p. 56 - 63 ; (from Gmelin) View in Reaxys
	With tin(II) chloride in not given Duke, F. R.; Lawrence, W. W.; Iowa State J. Sci.; vol. 38; (1964); p. 299 - 308; C. A.; vol. 60; (1964); p. 11864 View in Reaxys Nesmeyanov, A. N.; Vol'kenau, N. A.; Doklady Akademii Nauk SSSR; vol. 106/111; (1956); p. 157 - 160; Doklady Akademii Nauk SSSR; vol. 107; (1956); p. 262 - 264 View in Reaxys Nesmeyanov, A.; Grandberg, K. I.; Baukova, T. V.; Kosina, A. N.; Perevalova, E. G.; Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya; (1969); p. 1691 - 1692; Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya; (1969); p. 1829 - 1831 ; (from Gmelin) View in Reaxys
	With Fe(C₅H₄CH₃)₂ in propan-1-ol, water, Kinetics, byproducts: {Fe(C₅H₄CH₃)₂}(1+); 50 vol.-% n-C₃H₇OH, 50 vol.-% H₂O, 25.deg.C; vol. Fe: Org.Verb.A1; 5.1.1.1.10, page 277 - 279 ; (from Gmelin) View in Reaxys
	With NaBH₄ in not given vol. Fe: Org.Verb.A1; 5.1.1.1.10, page 277 - 279 ; (from Gmelin) View in Reaxys
	With SnCl₂ in not given vol. Fe: Org.Verb.A1; 5.1.1.1.10, page 277 - 279 ; (from Gmelin) View in Reaxys

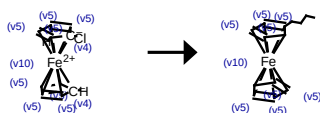

Rx-ID: 26515912 [View in Reaxys](#) 2/15

Yield	Conditions & References
45 %	With n-butyl chloride in not given Huffmann, J. W.; Keith, L. H.; Asbury, R. L.; Journal of Organic Chemistry; vol. 30; (1965); p. 1600 - 1604 ; (from Gmelin) View in Reaxys
45 %	With n-C₄H₉Cl in not given

	vol. Fe: Org.Verb.A1; 5.1.1.1.6, page 267 - 270 ; (from Gmelin) View in Reaxys
	With n-butyl chloride in not given Huffmann, J. W.; Keith, L. H.; Asbury, R. L. ; Journal of Organic Chemistry; vol. 30; (1965); p. 1600 - 1604 ; (from Gmelin) View in Reaxys
	With n-C ₄ H ₉ Cl in not given vol. Fe: Org.Verb.A1; 5.1.1.1.1, page 245 - 248 ; (from Gmelin) View in Reaxys

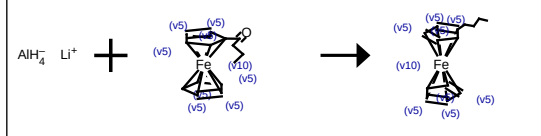

Rx-ID: 26512585 [View in Reaxys](#) 3/15

Yield	Conditions & References
95 %	With ethanol, sodium in ethanol, in boiling ethanol; Pauson, P. L.; Watts, W. E. ; Journal of the Chemical Society; (1963); p. 2990 - 2996 ; (from Gmelin) View in Reaxys
95 %	With Na, ethanol in ethanol, in boiling ethanol; vol. Fe: Org.Verb.A1; 5.1.1.1.6, page 267 - 270 ; (from Gmelin) View in Reaxys
	With ethanol, sodium in ethanol, in boiling ethanol; Pauson, P. L.; Watts, W. E. ; Journal of the Chemical Society; (1963); p. 2990 - 2996 View in Reaxys vol. Fe: Org.Verb.A1; 5.1.1.3.2, page 299 - 301 ; (from Gmelin) View in Reaxys


Rx-ID: 26521060 [View in Reaxys](#) 4/15

Yield	Conditions & References
18 %	With n-butyllithium in not given Huffmann, J. W.; Keith, L. H.; Asbury, R. L. ; Journal of Organic Chemistry; vol. 30; (1965); p. 1600 - 1604 ; (from Gmelin) View in Reaxys
18 %	With n-C ₄ H ₉ Li in not given vol. Fe: Org.Verb.A1; 5.1.1.1.6, page 267 - 270 ; (from Gmelin) View in Reaxys
	With n-butyllithium in not given, byproducts: ferrocene, (C ₅ H ₅ FeC ₅ H ₄) ₂ Huffmann, J. W.; Keith, L. H.; Asbury, R. L. ; Journal of Organic Chemistry; vol. 30; (1965); p. 1600 - 1604 ; (from Gmelin) View in Reaxys

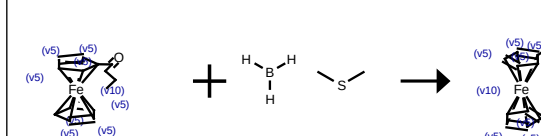
	With n-C₄H₉Li in not given, byproducts: ferrocene, (C₅H₅FeC₅H₄)₂ vol. Fe: Org.Verb.A1; 5.1.1.1.1, page 245 - 248 ; (from Gmelin) View in Reaxys
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Rx-ID: 26388403 View in Reaxys 5/15	

Yield	Conditions & References
	With aluminium trichloride in not given Ayers, O. E.; Smith, T. G.; Burnett, J. D.; Ponder, B. W.; Analytical Chemistry; vol. 38; (1966); p. 1606 - 1607 View in Reaxys DeYoung, E. L.; Journal of Organic Chemistry; vol. 26; (1961); p. 1312 - 1312 View in Reaxys Huffmann, J. W.; Keith, L. H.; Asbury, R. L.; Journal of Organic Chemistry; vol. 30; (1965); p. 1600 - 1604 View in Reaxys Pauson, P. L.; Watts, W. E.; Journal of the Chemical Society; (1963); p. 2990 - 2996 View in Reaxys Schloegl, K.; Mohar, A.; Peterlik, M.; Monatshefte fuer Chemie; vol. 92; (1961); p. 921 - 926 ; (from Gmelin) View in Reaxys
	With AlCl₃ in not given Nesmeyanov, A. N.; Kochetkova, N. S.; Doklady Akademii Nauk SSSR; vol. 106/111; (1956); p. 441 - 444; Doklady Akademii Nauk SSSR; vol. 109; (1956); p. 543 - 545 View in Reaxys vol. Fe: Org.Verb.A1; 5.1.1.1.6, page 267 - 270 ; (from Gmelin) View in Reaxys

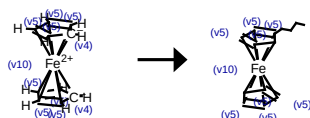
	
Rx-ID: 26513089 View in Reaxys 6/15	

Yield	Conditions & References
	With NADPH in propan-1-ol, water, Kinetics, byproducts: NAD(1+); solvent was 46/54 PrOH/H₂O(w/w) with aq. portion being 0.02 M in pH 7.0phosphate buffer; at 30.0+/-0.2 .deg.C; under Ar; not isolated, monitored by UV Carlson, Brian W.; Miller, Larry L.; Journal of the American Chemical Society; vol. 105; (1983); p. 7453 - 7454 ; (from Gmelin) View in Reaxys

	
Rx-ID: 26388726 View in Reaxys 7/15	

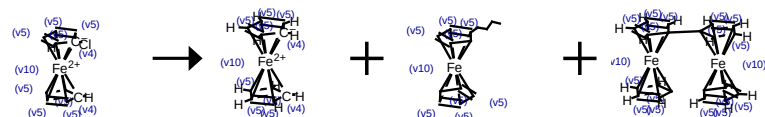
Yield	Conditions & References
97 %	in tetrahydrofuran, 3 equiv of borane, THF, reflux, 15 min

Routaboul, Lucie; Chiffre, Jerome; Balavoine, Gilbert G. A.; Daran, Jean-Claude; Manoury, Eric; Journal of Organometallic Chemistry; **vol.** 637 - 639; (2001); p. 364 - 371 ; (from Gmelin)
[View in Reaxys](#)



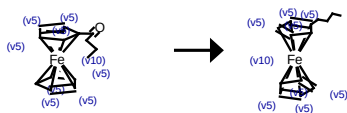
Rx-ID: 26502038 [View in Reaxys](#) 8/15

Yield	Conditions & References
<1	With n-butyl chloride in ethanol, Irradiation (UV/VIS); UV irradiation of soln. of ferrocene in n-C4H9Cl/ethanol; Akiyama, T.; Hoshi, Y.; Goto, S.; Sugimori, A.; Bulletin of the Chemical Society of Japan; vol. 46; (1973); p. 1851 - 1854 View in Reaxys Hoshi, Y.; Akiyama, T.; Sugimori, A.; Tetrahedron Letters; (1970); p. 1485 - 1488 ; (from Gmelin) View in Reaxys
<1	With n-C4H9Cl in ethanol, Irradiation (UV/VIS); UV irradiation of soln. of ferrocene in n-C4H9Cl/ethanol; vol. Fe: Org.Verb.A1; 5.1.1.1.6, page 267 - 270 ; (from Gmelin) View in Reaxys



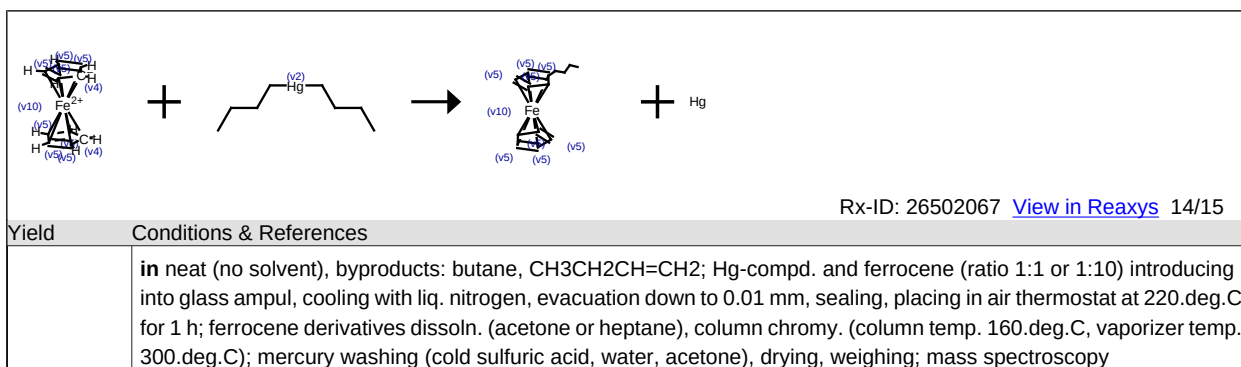
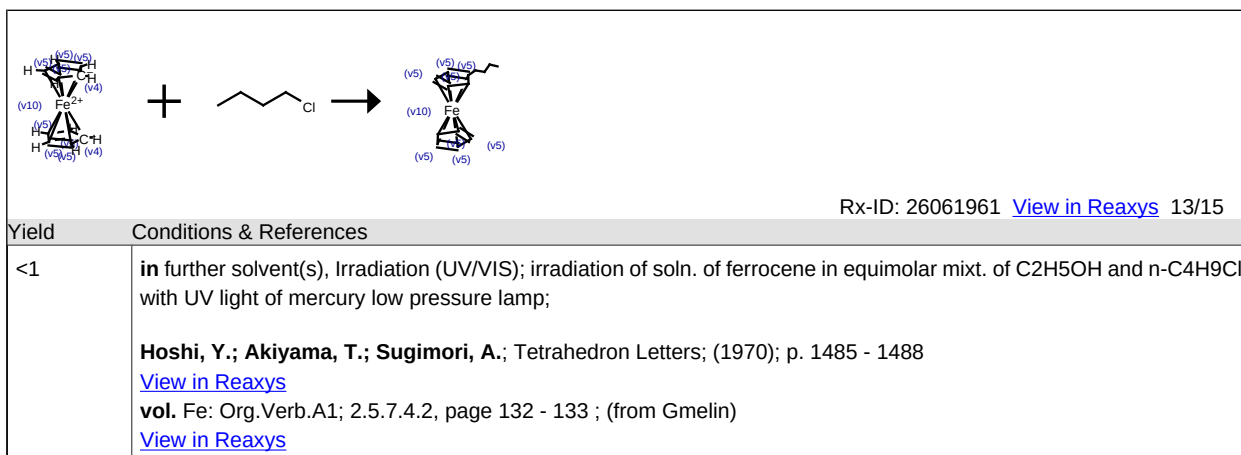
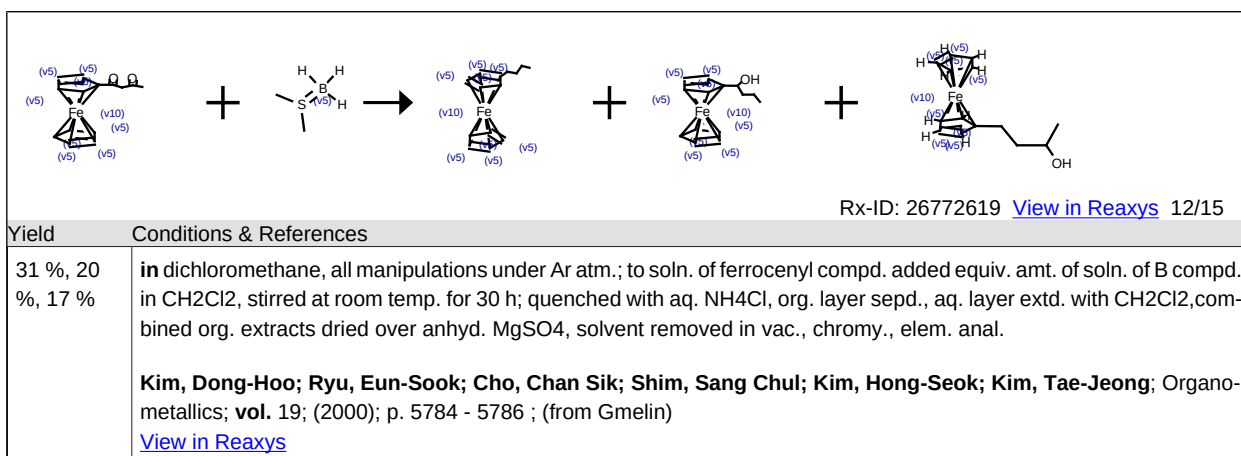
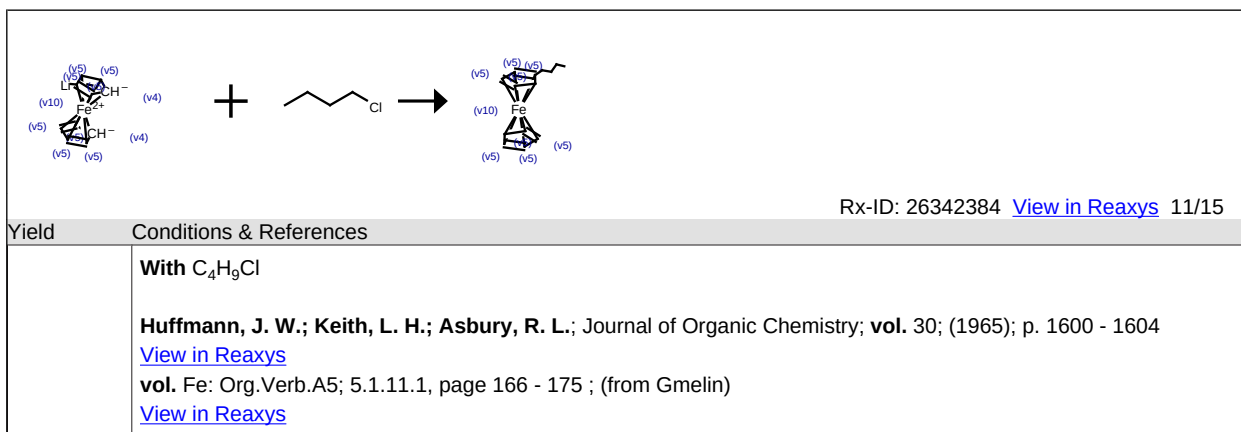
Rx-ID: 26521052 [View in Reaxys](#) 9/15

Yield	Conditions & References
	With n-butyllithium in tetrahydrofuran, hexane, boiling; Huffmann, J. W.; Keith, L. H.; Asbury, R. L.; Journal of Organic Chemistry; vol. 30; (1965); p. 1600 - 1604 ; (from Gmelin) View in Reaxys
	With n-C4H9Li in tetrahydrofuran, hexane, boiling; vol. Fe: Org.Verb.A1; 5.1.2.1.5, page 372 - 380 ; (from Gmelin) View in Reaxys

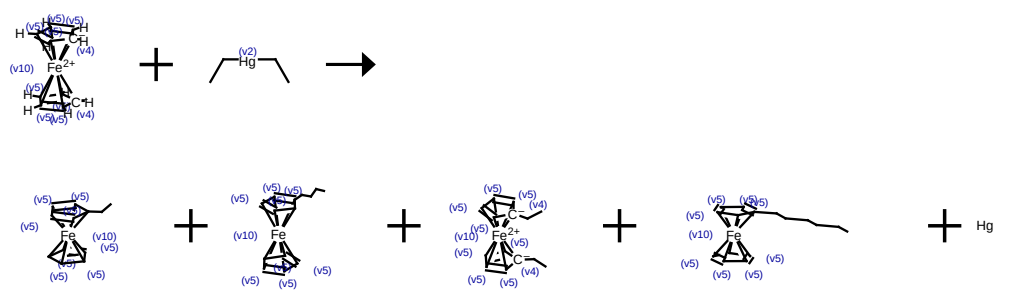


Rx-ID: 26521940 [View in Reaxys](#) 10/15

Yield	Conditions & References
	in not given, Clemmensen reduction; DeYoung, E. L.; Journal of Organic Chemistry; vol. 26; (1961); p. 1312 - 1312 ; (from Gmelin) View in Reaxys
	in not given, Clemmensen reduction; vol. Fe: Org.Verb.A1; 5.1.1.1.6, page 267 - 270 ; (from Gmelin) View in Reaxys



	Dodonov, V. A.; Yudenich, S. G.; Druzhkov, O. N.; Journal of General Chemistry USSR (English Translation); vol. 54; (1984); p. 2035 - 2039; Zhurnal Obshchei Khimii; vol. 54; (1984); p. 2275 - 2281 ; (from Gmelin) View in Reaxys
	in gas, byproducts: butane, CH₃CH₂CH=CH₂; Hg-compd. and ferrocene (ratio 1:1) introducing into glass ampul, cooling with liq. nitrogen, evacuation down to 0.01 mm, sealing, placing in air thermostat at 220.deg.C for 1 h; ferrocene derivatives dissoln. (acetone or heptane), column chromy. (column temp. 160.deg.C, vaporizer temp. 300.deg.C); mercury washing (cold sulfuric acid, water, acetone), drying, weighing; mass spectroscopy Dodonov, V. A.; Yudenich, S. G.; Druzhkov, O. N.; Journal of General Chemistry USSR (English Translation); vol. 54; (1984); p. 2035 - 2039; Zhurnal Obshchei Khimii; vol. 54; (1984); p. 2275 - 2281 ; (from Gmelin) View in Reaxys

	
Rx-ID: 26486997 View in Reaxys 15/15	
Yield	Conditions & References
	in benzene, reaction of in situ generated ethyl radicals with benzene soln. of ferrocene (200.deg.C, sealed evac. ampul); further products and higher homologs of allylferrocene; mass spectroscopy, chromy. Razuvaev, G. A.; Yudenich, S. G.; Druzhkov, O. N.; Dodonov, V. A.; Journal of General Chemistry USSR (English Translation); vol. 52; (1982); p. 2108 - 2109; Zhurnal Obshchei Khimii; vol. 52; (1982); p. 2369 - 2370 ; (from Gmelin) View in Reaxys
	in gas, byproducts: ethane, butane; 205-230.deg.C, sealed evac. ampul; further products and higher homologs of allylferrocene; mass spectroscopy, chromy. Razuvaev, G. A.; Yudenich, S. G.; Druzhkov, O. N.; Dodonov, V. A.; Journal of General Chemistry USSR (English Translation); vol. 52; (1982); p. 2108 - 2109; Zhurnal Obshchei Khimii; vol. 52; (1982); p. 2369 - 2370 ; (from Gmelin) View in Reaxys
	in neat (no solvent), byproducts: ethylene, butane; 205-230.deg.C, sealed evac. ampul; further products and higher homologs of allylferrocene; mass spectroscopy, chromy. Razuvaev, G. A.; Yudenich, S. G.; Druzhkov, O. N.; Dodonov, V. A.; Journal of General Chemistry USSR (English Translation); vol. 52; (1982); p. 2108 - 2109; Zhurnal Obshchei Khimii; vol. 52; (1982); p. 2369 - 2370 ; (from Gmelin) View in Reaxys