

$\text{H}_2\text{N}- \longrightarrow \text{Cl}-\text{N}(\text{I})-\text{Cl}$		Rx-ID: 3735025
Yield	Conditions & References	
91 %	With NaCl in H₂O, electrolysis Petrosyan, V. A.; Lyalin, B. V.; Smetanin, A. V.; Bulletin of the Academy of Sciences of the USSR, Division of Chemical Science (English Translation); vol. 39; nb. 3.2; (1990); p. 542 - 546; Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya; nb. 3; (1990); p. 620 - 625	

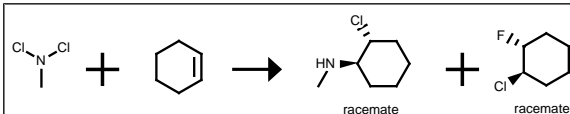
$\text{Cl}-\text{N}(\text{I})-\text{Cl} \longrightarrow \text{HN}(\text{I})-\text{Cl} + \text{Cl}-\text{C}(\text{I})_3 + \text{H}^+$		Rx-ID: 1903595
Yield	Conditions & References	
83 %	With SbCl₅, HCl in CH₂Cl₂, T= -78 °C Thiel, Norbert; Schwarz, W.; Schmidt, A.; Zeitschrift fuer Naturforschung, Teil B: Anorganische Chemie, Organische Chemie; vol. 36; nb. 7; (1981); p. 775 - 780	

$\text{H}_2\text{N}- + \text{Cl}-\text{H} \longrightarrow \text{Cl}-\text{N}(\text{I})-\text{Cl}$		Rx-ID: 533831
Yield	Conditions & References	
	With calcium chloride, man destilliert dann das Produkt nochmals mit 75 g Chlorkalk Bamberger; Renauld; Chemische Berichte; vol. 28; (1895); p. 1683 Koehler; Chemische Berichte; vol. 12; (1879); p. 771	
	With water, diethyl ether, NaOCl, T= 0 °C Coleman; Journal of the American Chemical Society; vol. 55; (1933); p. 3003	
	With water, calcium chloride Jezo et al.; Chemické Zvesti; vol. 5; (1951); p. 121,124; Chem.Abstr.; (1953); p. 106	
	With chloroform, calcium chloride Jezo et al.; Chemické Zvesti; vol. 5; (1951); p. 121,124; Chem.Abstr.; (1953); p. 106	

$\text{Cl}-\text{Si}(\text{I})_3 + \text{Cl}-\text{N}(\text{I})-\text{Cl} \longrightarrow \text{Cl}-\text{Si}(\text{I})_2-\text{N}(\text{I})-\text{Si}(\text{I})_3$		Rx-ID: 1762401
Yield	Conditions & References	
72 %	With <(CH₃)₂N>3P in CH₂Cl₂, T= -10 °C Shaposhnikov, S. I.; Koidan, G. N.; Marchenko, A. P.; Pinchuk, A. M.; J. Gen. Chem. USSR (Engl. Transl.); vol. 55; nb. 5; (1985); p. 963 - 966; Zhurnal Obshchei Khimii; vol. 55; nb. 5; (1985); p. 1080 - 1084	

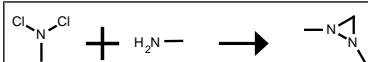
$\text{H}_2\text{N}- \longrightarrow \text{N}(\text{I})-\text{Cl} + \text{Cl}-\text{N}(\text{I})-\text{Cl}$		Rx-ID: 3735023
Yield	Conditions & References	
88 %	With N-chlorosuccinimide, alumina, T= 20 °C , p= 0.1Torr , Title compound not separated from byproducts Guillemin, J. C.; Denis, J. M.; Synthesis; nb. 12; (1985); p. 1131 - 1133	

85 %	<p>With N-chlorosuccinimide, adipic acid, T= 20 °C , p= 0.1Torr , Title compound not separated from byproducts</p> <p>Guillemin, J. C.; Denis, J. M.; Synthesis; nb. 12; (1985); p. 1131 - 1133</p>
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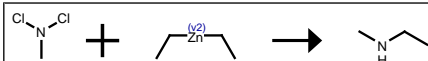
Rx-ID: 3854561

Yield	Conditions & References
60 %	<p>With BF₃-etherate in CH₂Cl₂, Ambient temperature</p> <p>Heasley, Gene E.; Janes, J. Mark; Stark, Stephen R.; Robinson, Brian L.; Heasley, Victor L.; Shellhamer, Dale F.; Tetrahedron Letters; vol. 26; nb. 15; (1985); p. 1811 - 1814</p>



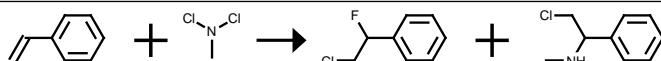
Rx-ID: 9979691

Yield	Conditions & References
24.3 %	<p>With K₂CO₃, water in CHCl₃, Time= 72h, T= 15 - 18 °C</p> <p>Kuznetsov, Vladimir V.; Makhova, Nina N.; Dmitriev, Dmitrii E.; Seregin, Victor V.; Mendelev Communications; nb. 3; (2005); p. 116 - 118</p>



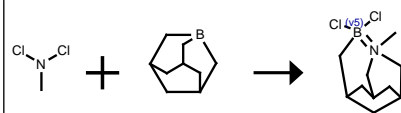
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Yield	Conditions & References
	<p>With petroleum ether</p> <p>Coleman; Andersen; Hermanson; Journal of the American Chemical Society; vol. 56; (1934); p. 1381</p>



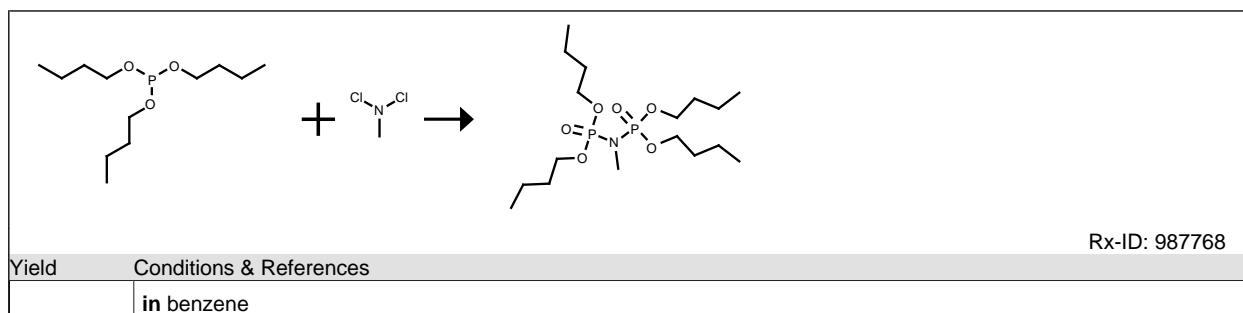
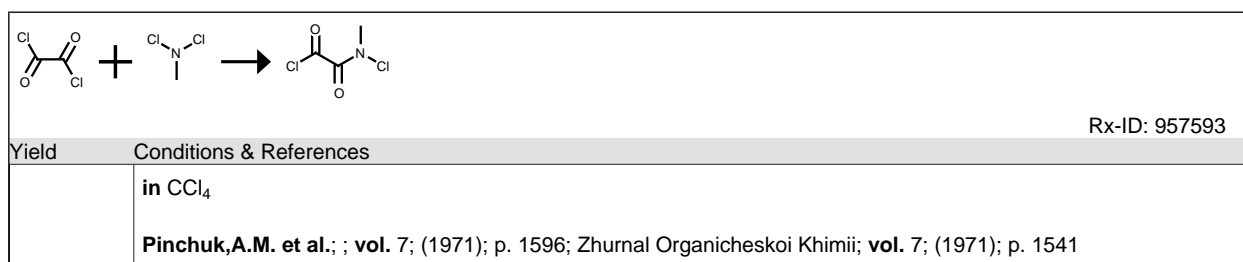
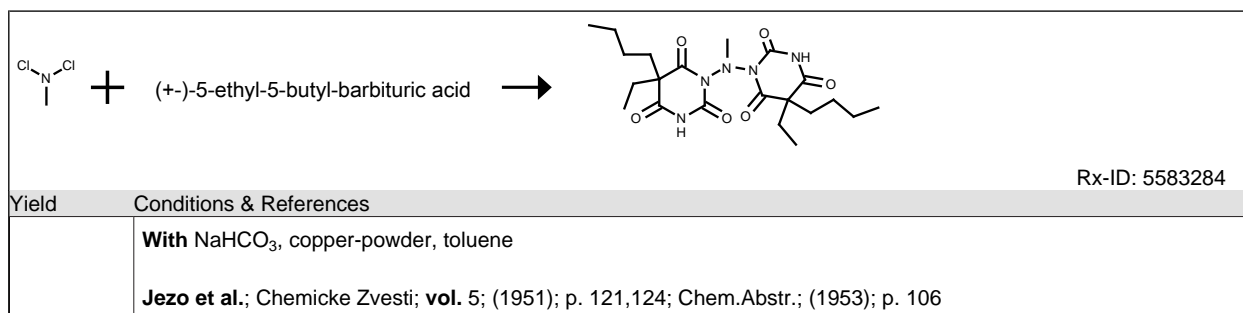
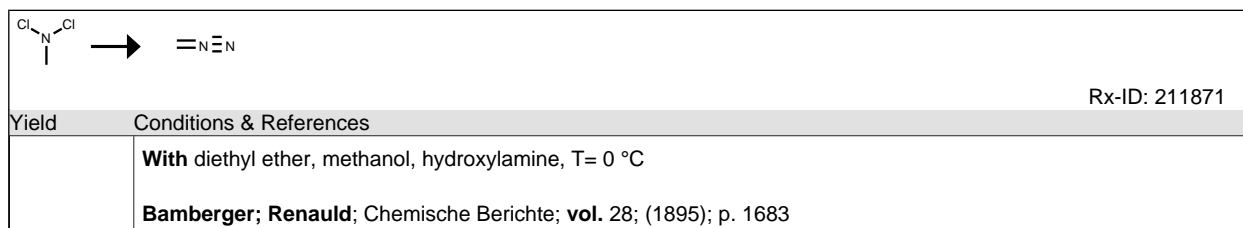
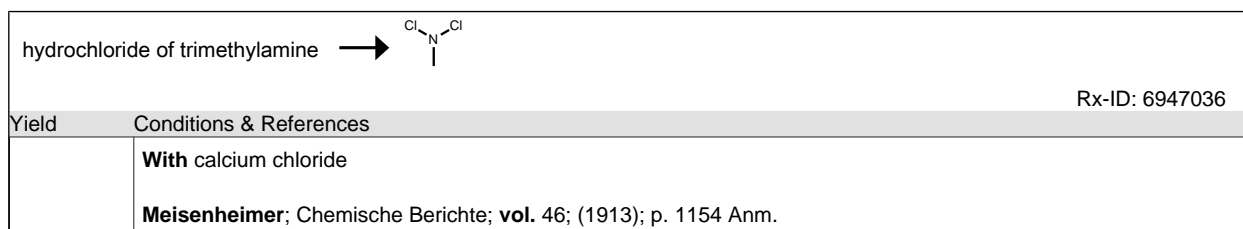
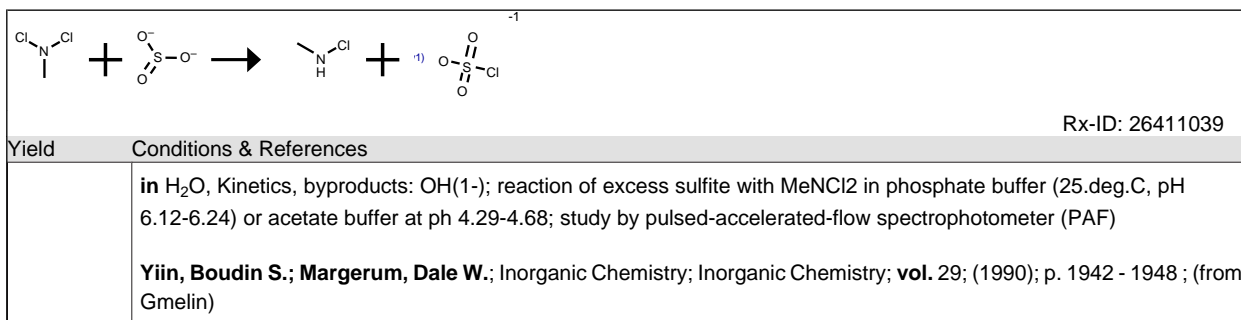
Rx-ID: 1545256

Yield	Conditions & References
10 % Chromat.	<p>With BF₃-etherate in CH₂Cl₂, Ambient temperature</p> <p>Heasley, Gene E.; Janes, J. Mark; Stark, Stephen R.; Robinson, Brian L.; Heasley, Victor L.; Shellhamer, Dale F.; Tetrahedron Letters; vol. 26; nb. 15; (1985); p. 1811 - 1814</p>

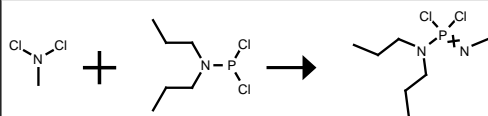


Rx-ID: 26642790

Yield	Conditions & References
	<p>Mikhailov, B. M.; Pure and Applied Chemistry; Pure and Applied Chemistry; vol. 55; (1983); p. 1439 - 1452 ; (from Gmelin)</p>
	<p>in methylene chloride=methylene dichloride, 2 h, 20.deg.C, under Ar; filtration, washing with pentane, drying in vac.; elem. anal.</p> <p>Mikhailov, B. M.; Shagova, E. A.; Etinger, M. Yu.; Journal of Organometallic Chemistry; Journal of Organometallic Chemistry; vol. 220; (1981); p. 1 - 10 ; (from Gmelin)</p>



Pinchuk, A.M. et al.; J. Gen. Chem. USSR (Engl. Transl.); **vol. 45;** (1975); p. 2352 - 2354; Zhurnal Obshchei Khimii; **vol. 45;** (1975); p. 2394 - 2396

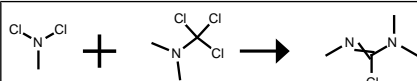


Rx-ID: 1002853

Yield Conditions & References

in benzene

Kovenya, V.A. et al.; J. Gen. Chem. USSR (Engl. Transl.); **vol. 48;** (1978); p. 2436 - 2441; Zhurnal Obshchei Khimii; **vol. 48;** nb. 12; (1978); p. 2686 - 2692

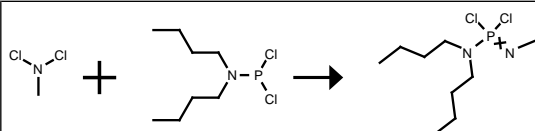


Rx-ID: 1002854

Yield Conditions & References

in CCl₄

Kukhar', V.P. et al.; ; **vol. 9;** (1973); p. 41 - 43; Zhurnal Organicheskoi Khimii; **vol. 9;** (1973); p. 43 - 45

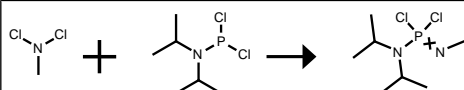


Rx-ID: 1002855

Yield Conditions & References

in benzene

Kovenya, V.A. et al.; J. Gen. Chem. USSR (Engl. Transl.); **vol. 48;** (1978); p. 2436 - 2441; Zhurnal Obshchei Khimii; **vol. 48;** nb. 12; (1978); p. 2686 - 2692

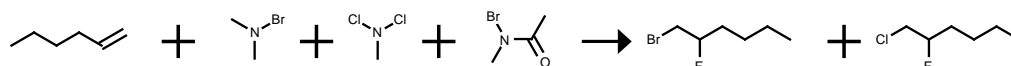


Rx-ID: 1002856

Yield Conditions & References

in benzene

Kovenya, V.A. et al.; J. Gen. Chem. USSR (Engl. Transl.); **vol. 48;** (1978); p. 2436 - 2441; Zhurnal Obshchei Khimii; **vol. 48;** nb. 12; (1978); p. 2686 - 2692

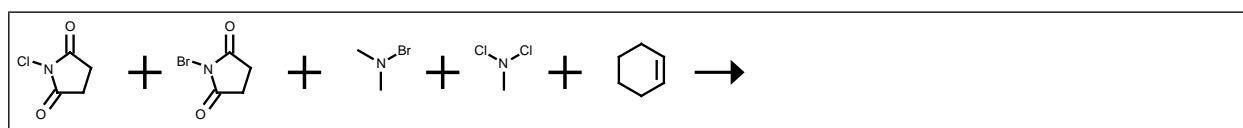
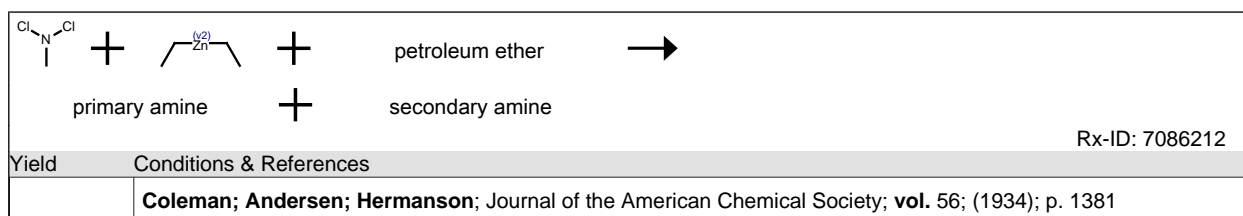
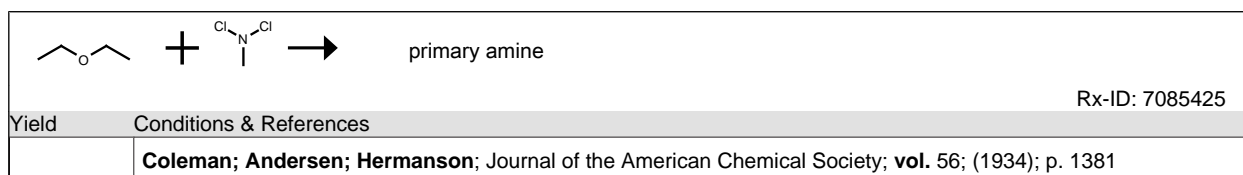
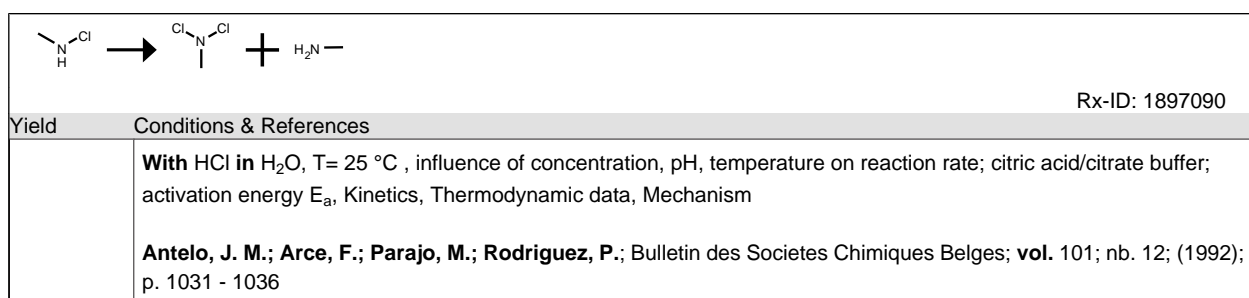
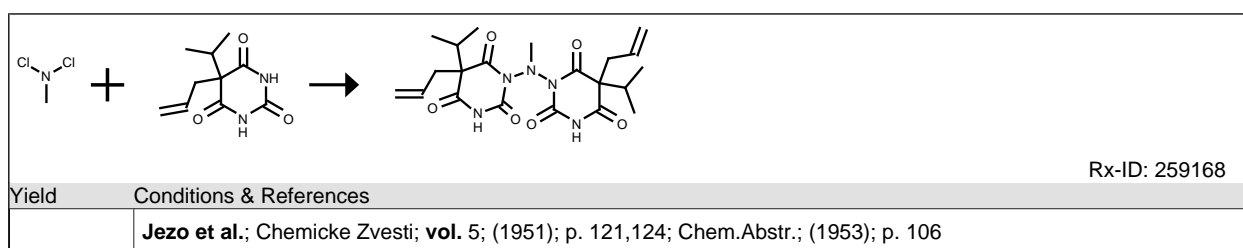
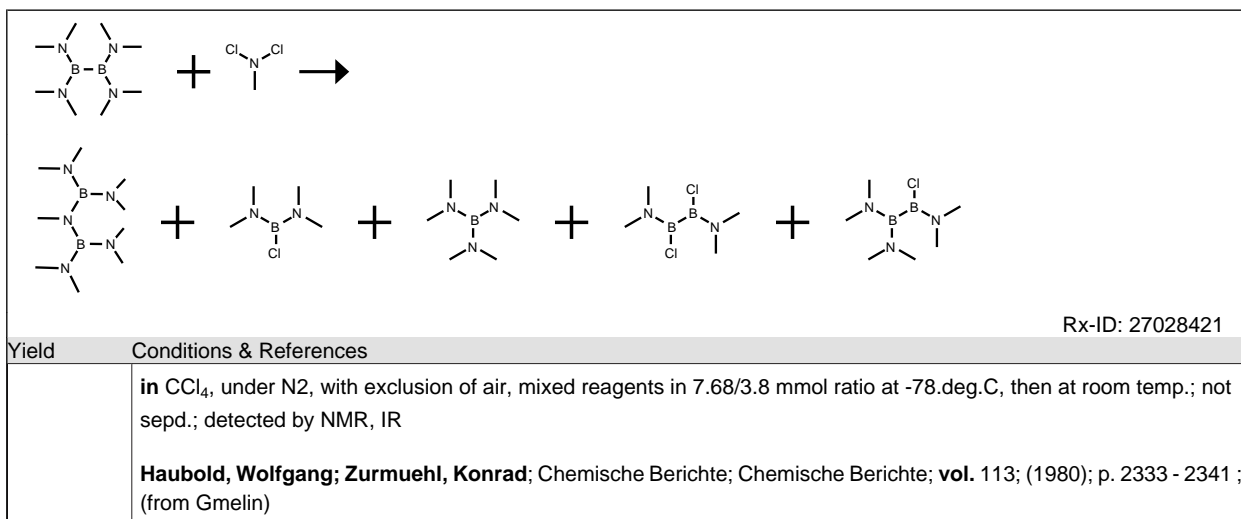


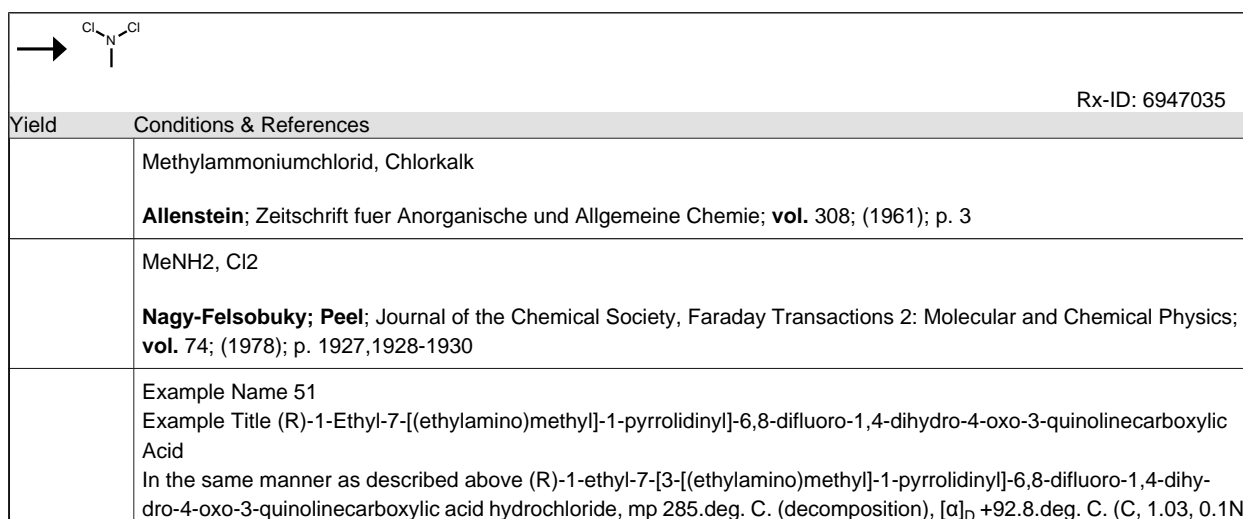
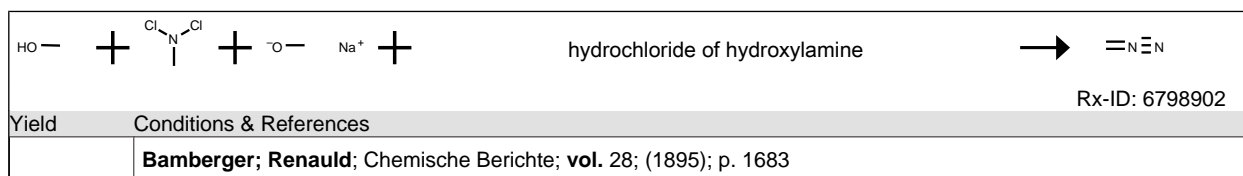
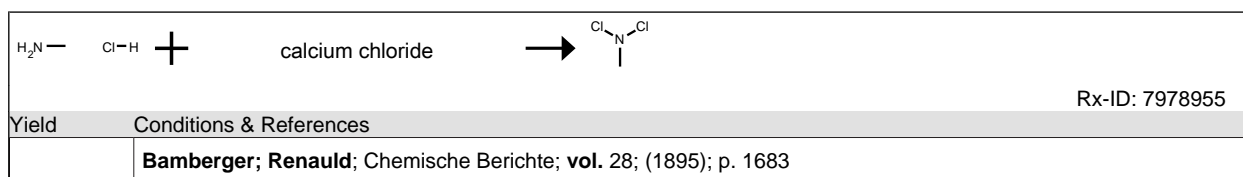
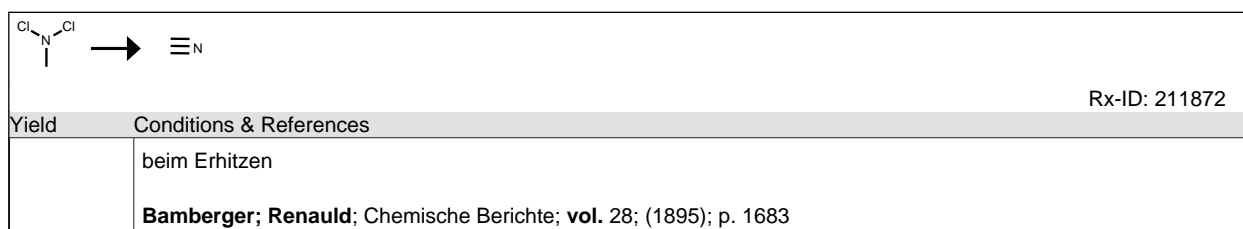
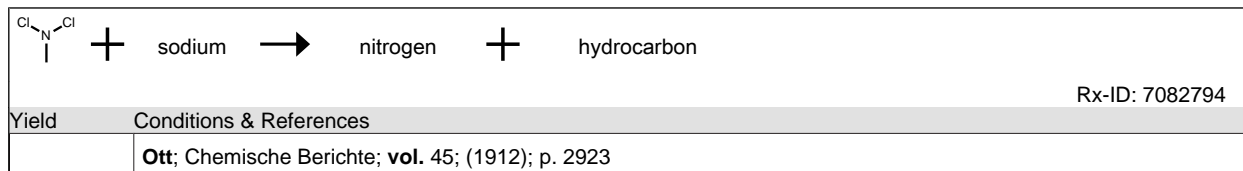
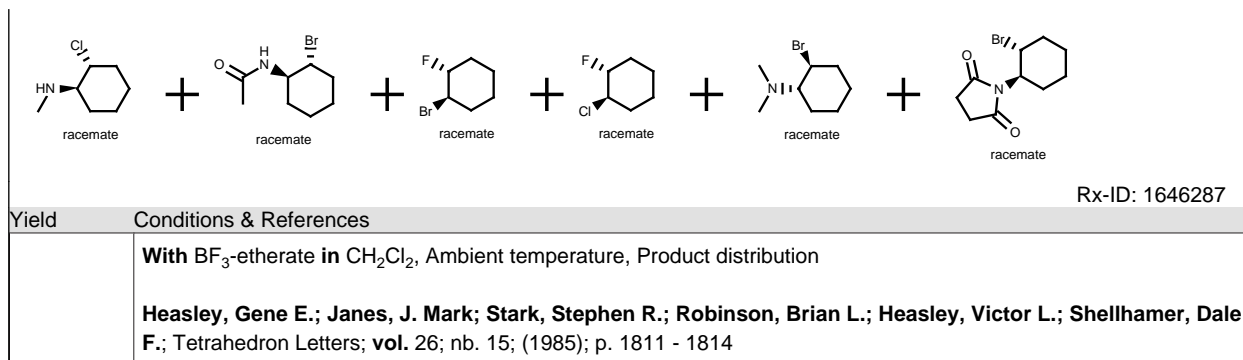
Rx-ID: 1690994

Yield Conditions & References

With CH₃NHCl, CH₃NHBr, (CH₃)₂NCl, (CH₃)₂NBr, N-Chloropiperidine, N-Bromopiperidine, CH₃NBr₂, BF₃-etherate in CH₂Cl₂, Ambient temperature, Product distribution

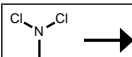
Heasley, Gene E.; Janes, J. Mark; Stark, Stephen R.; Robinson, Brian L.; Heasley, Victor L.; Shellhamer, Dale F.; Tetrahedron Letters; **vol. 26;** nb. 15; (1985); p. 1811 - 1814





NaOH), was prepared by converting [3S-(R*,S*)]-methyl 5-oxo-1-(1-phenylethyl)-3-pyrrolidinecarboxylate (mp 69.deg.-71.deg. C., $[\alpha]_D +118.8$.deg. C. (C, 1.21, methanol) into (R)-N-ethyl-3-pyrrolidine methanamine dichloride, mp 181.deg.-183.deg. C., $[\alpha] -5.1$.deg. C. (C, 0.78, 0.1 N NaOH) (Example QQ) and subsequently reacting with 1-ethyl-6,7,8-trifluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid.

Patent; Warner-Lambert Co.; US4638067; (1987); (A1) English



Rx-ID: 6755043

Yield	Conditions & References
	Rk.mit Kaliumrhodanid Allenstein; Lattewitz; Zeitschrift fuer Anorganische und Allgemeine Chemie; vol. 333; (1964); p. 1,8
	Rk. mit PCl ₃ Kovenya; Pinchuk; J. Gen. Chem. USSR (Engl. Transl.); vol. 46; (1976); p. 2557; Zhurnal Obshchei Khimii; vol. 46; (1976); p. 2679
	Rk. mit Oxalylchlorid, -> N-Chlor-N-methyloxamylchlorid Pinchuk,A.M. et al.; ; vol. 7; (1971); p. 1596; Zhurnal Organicheskoi Khimii; vol. 7; (1971); p. 1541