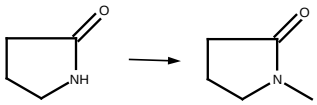
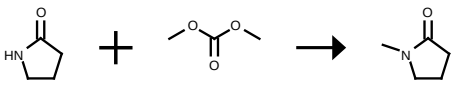
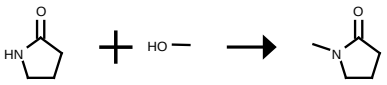
Query

	Query	Results	Date
1. Query	 Search as: Product, As drawn, No salts, No mixtures	11 reactions	2012-02-27 01h:37m:23s (EST)



Rx-ID: 29627449 View in Reaxys 1/11

Yield	Conditions & References
57 %	**With** NaY CBV_{100} zeolite, Time= 1h, T= 250 °C , Inert atmosphere, Autoclave **Lammens, Tijs M.; Scott, Elinor L.; Sanders, Johan P. M.; Franssen, Maurice C. R.**; Green Chemistry; **vol.** 12; nb. 8; (2010); p. 1430 - 1436 View in Reaxys



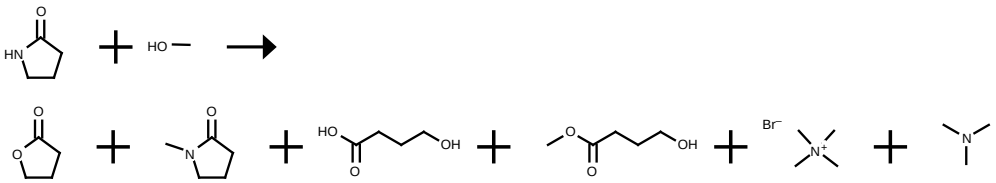
Rx-ID: 28095 View in Reaxys 2/11

Yield	Conditions & References
	With aluminum oxide, T= 300 °C , Beim Leiten des Dampfes von Edukt 1 und Edukt 2 ueber das Reagens **Patent**; **BASF**; DE830194; (1951); DRP/DRBP Org.Chem. View in Reaxys
	With Cs-P-Si mixed-oxide, T= 300 °C , p= 61504.9Torr **Oku, Tomoharu; Ikariya, Takao**; Angewandte Chemie, International Edition; **vol.** 41; nb. 18; (2002); p. 3476 - 3479; Angewandte Chemie; **vol.** 114; nb. 18; (2002); p. 3626 - 3629 View in Reaxys
	With Cs-P-Si, T= 300 °C , p= 61504.9Torr **Oku, Tomoharu; Arita, Yoshitaka; Tsuneki, Hideaki; Ikariya, Takao**; Journal of the American Chemical Society; **vol.** 126; nb. 23; (2004); p. 7368 - 7377 View in Reaxys
	Example Name 3.3 3.3 Conversion of Pyrrolidone to NMP; Analogously to Example 3.2, instead of acidic aluminum oxide, 56 g of a catalyst consisting of 80percent Al_2O_3/20percent SiO2 were used. At 300.deg. C., 48.1percent pyrrolidone, 34.2percent methanol and 16.2percent NMP were found. After increasing the temperature to 350.deg. C., 18percent pyrrolidone, 17percent methanol and 61.3percent NMP were found in the effluent. **With** 80percent Al_2O_3/ 20percent SiO_2, T= 350 °C , Product distribution / selectivity **Patent**; **BASF SE**; US8017790; (2011); (B2) English View in Reaxys

Rx-ID: 25462718 View in Reaxys 3/11

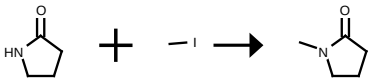
Yield	Conditions & References
	Example Title Reaction When the reaction temperature was increased to 430.deg. C., the conversion of 2-pyrrolidone and the selectivity and per-pass yield of N-methyl-2-pyrrolidone were 59 mole percent, 99 mole percent and 58 mole percent, respectively. **Patent**; **Nippon Shokubai Co., Ltd.**; US5847213; (1998); (A1) English View in Reaxys
	Example Title Reaction Using the above catalyst, a reaction was conducted in the same manner as in Example 1 except that the reaction temperature was changed to 400.deg. C. After 1 hour from the start of feeding, the conversion of 2-pyrrolidone and the selectivity and per-pass yield of N-methyl-2-pyrrolidone were 38 mole percent, 97 mole percent and 37 mole percent, respectively.

	Patent; **Nippon Shokubai Co., Ltd.**; US5847213; (1998); (A1) English View in Reaxys



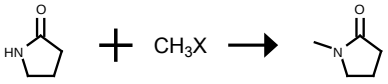
Rx-ID: 29627446 View in Reaxys 4/11

Yield	Conditions & References
	With NH_4Br, Time= 5.33333h, T= 250 °C , p= 3750.38Torr , Inert atmosphere, Autoclave **Lammens, Tijs M.; Scott, Elinor L.; Sanders, Johan P. M.; Franssen, Maurice C. R.**; Green Chemistry; **vol.** 12; nb. 8; (2010); p. 1430 - 1436 View in Reaxys



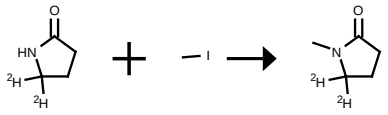
Rx-ID: 1522130 View in Reaxys 5/11

Yield	Conditions & References
	With sodium hydride, THF, 1) 0 deg C, 20 min, 2) RT, overnight, Yield given. Multistep reaction **Pathak, Tanmaya; Thomas, Noel F.; Akhtar, Mahmoud; Gani, David**; Tetrahedron; **vol.** 46; nb. 5; (1990); p. 1733 - 1744 View in Reaxys
86 % Chromat.	**With** potassium fluoride on basic alumina **in** ethylene glycol dimethyl ether, Time= 5h, Ambient temperature **Yamawaki, Junko; Ando, Takashi; Hanafusa, Terukiyo**; Chemistry Letters; (1981); p. 1143 - 1146 View in Reaxys



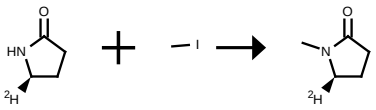
Rx-ID: 8988582 View in Reaxys 6/11

Yield	Conditions & References
	With sodium hydride, T= 60 - 70 °C **Stamatiou, George; Kolocouris, Antonios; Kolocouris, Nicolas; Fytas, George; Foscolos, George B.; Neyts, Johan; Clercq, Erik De**; Bioorganic & Medicinal Chemistry Letters; **vol.** 11; nb. 16; (2001); p. 2137 - 2142 View in Reaxys



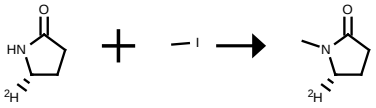
Rx-ID: 3884923 View in Reaxys 7/11

Yield	Conditions & References
	With sodium hydride, THF, 1) 0 deg C, 2) RT, Yield given. Multistep reaction **Pathak, Tanmaya; Thomas, Noel F.; Akhtar, Mahmoud; Gani, David**; Tetrahedron; **vol.** 46; nb. 5; (1990); p. 1733 - 1744 View in Reaxys



Rx-ID: 3890118 View in Reaxys 8/11

Yield	Conditions & References
	With sodium hydride, THF, 1) 0 deg C, 2) RT, overnight, Yield given. Multistep reaction **Pathak, Tanmaya; Thomas, Noel F.; Akhtar, Mahmoud; Gani, David**; Tetrahedron; **vol.** 46; nb. 5; (1990); p. 1733 - 1744 View in Reaxys

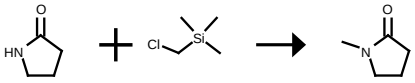


Rx-ID: 3890119 View in Reaxys 9/11

Yield	Conditions & References
	With sodium hydride, THF, 1) 0 deg C, 2) RT, Yield given. Multistep reaction **Pathak, Tanmaya; Thomas, Noel F.; Akhtar, Mahmoud; Gani, David**; Tetrahedron; **vol.** 46; nb. 5; (1990); p. 1733 - 1744 View in Reaxys

Rx-ID: 28127 View in Reaxys 10/11

Yield	Conditions & References
	With benzene **Petersen; Tietze**; Chemische Berichte; **vol.** 90; (1957); p. 909,916 View in Reaxys **Cervinka**; Collection of Czechoslovak Chemical Communications; **vol.** 24; (1959); p. 1146,1148; Chemicke Listy; **vol.** 52; (1958); p. 1145 View in Reaxys



Rx-ID: 1522127 View in Reaxys 11/11

Yield	Conditions & References
	With potassium hydroxide, 1) DMSO, 100 deg C, 2) DMSO, RT, 1 d, Yield given. Multistep reaction **Kramarova, E. P.; Shipov, A. G.; Orlova, N. A.; Artamkina, O. B.; Belavin, I. Yu.; Baukov, Yu. I.**; J. Gen. Chem. USSR (Engl. Transl.); **vol.** 58; nb. 5; (1988); p. 1093 - 1102,970 - 979 View in Reaxys