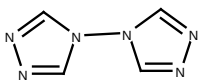
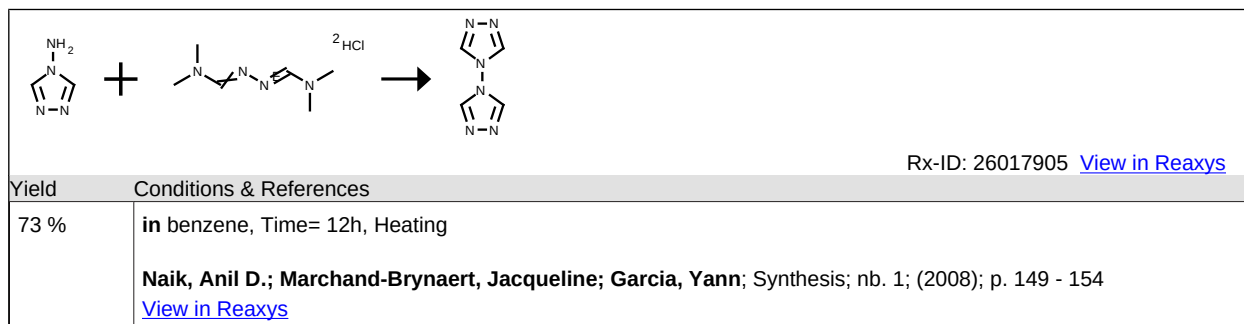
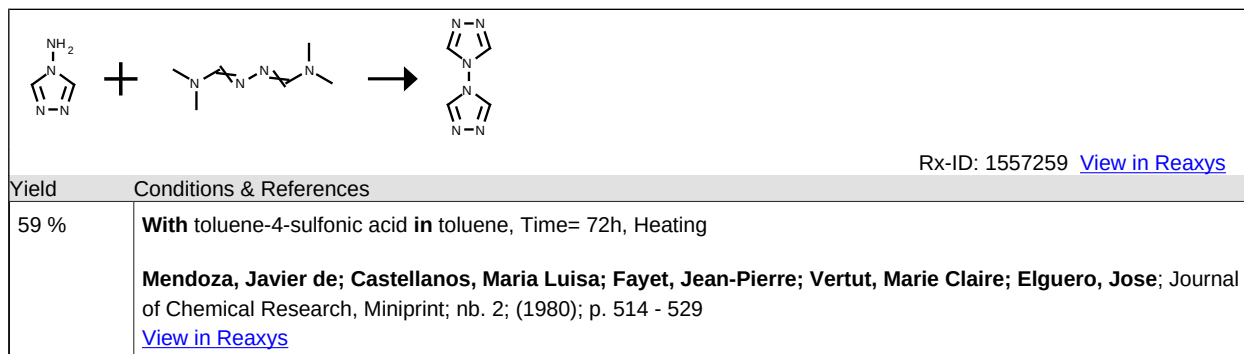
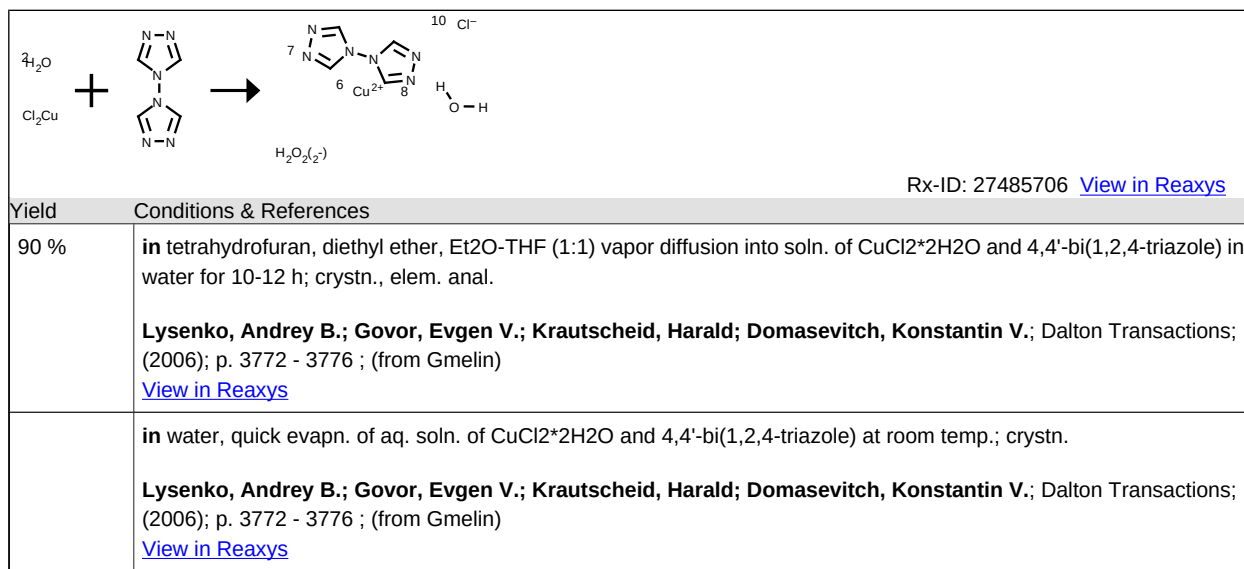
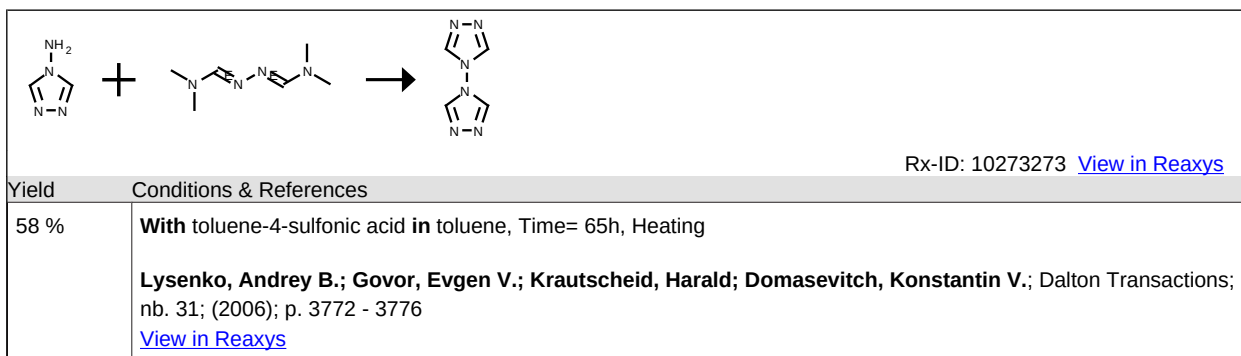
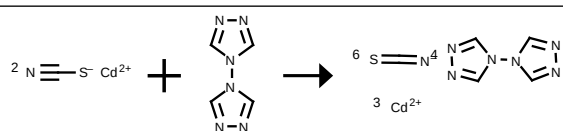


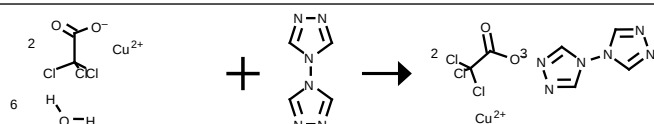
Query

	Query	Results	Date
1. Query	 Search as: Product, As drawn, No salts, No mixtures	45 reactions	2011-12-08 00h:18m:53s (EST)

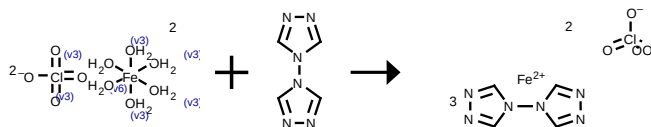



 Rx-ID: 28060666 [View in Reaxys](#)

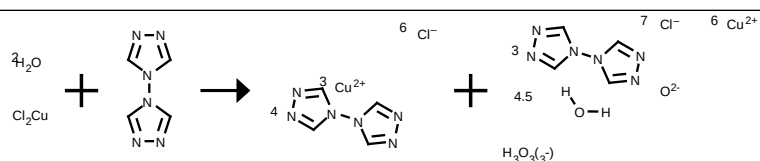
Yield	Conditions & References
98 %	in water, soln. of Cd(SCN)₂ (0.2 mmol) and (N₃C₂H₂)₂ (0.1 mmol) mixed; evapd. in desiccator over CaCl₂ for a few d Govor, Evgeniy V.; Lysenko, Andrey B.; Domasevitch, Konstantin V.; Rusanov, Eduard B.; Chernega, Alexander N.; Acta Crystallographica, Section C: Crystal Structure Communications; vol. 64; (2008); p. M117 - M120 ; (from Gmelin) View in Reaxys


 Rx-ID: 29343193 [View in Reaxys](#)

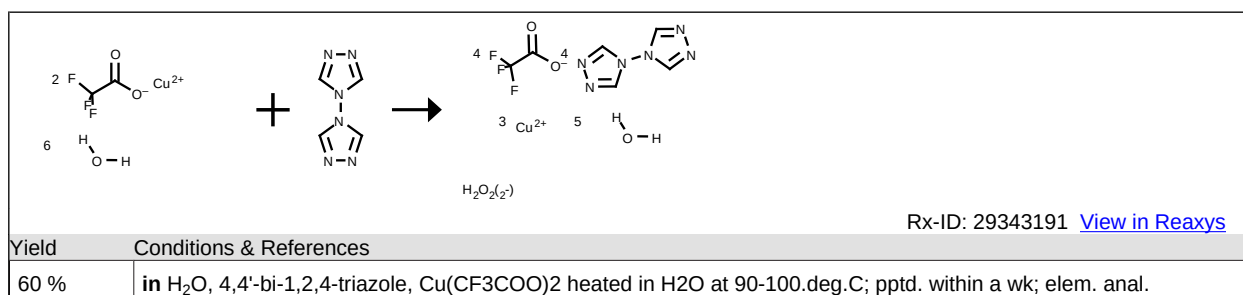
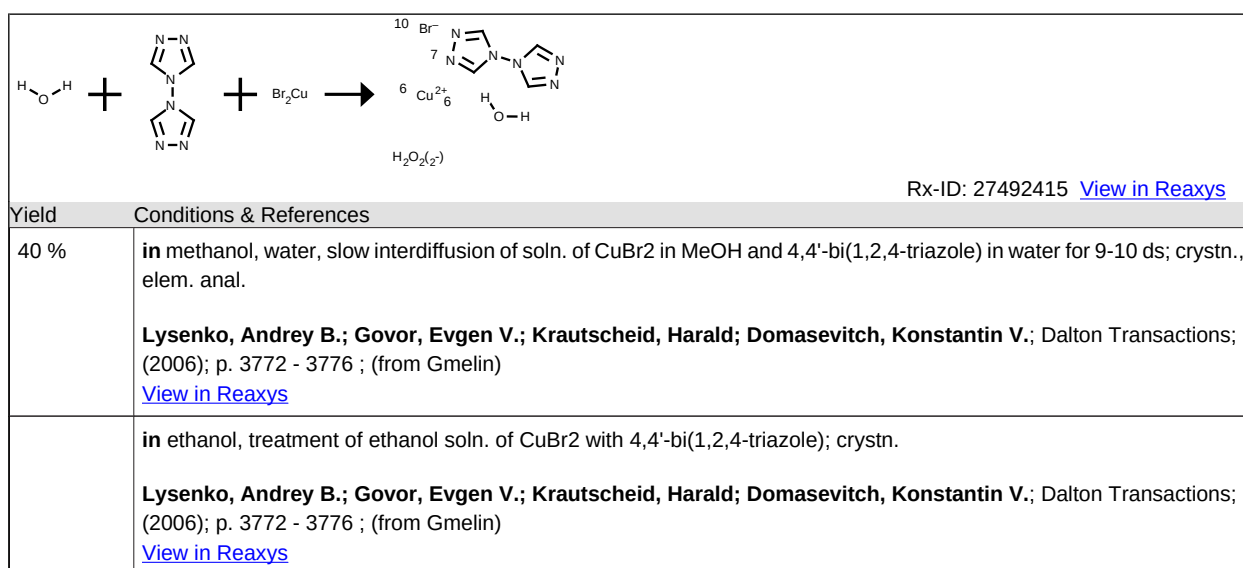
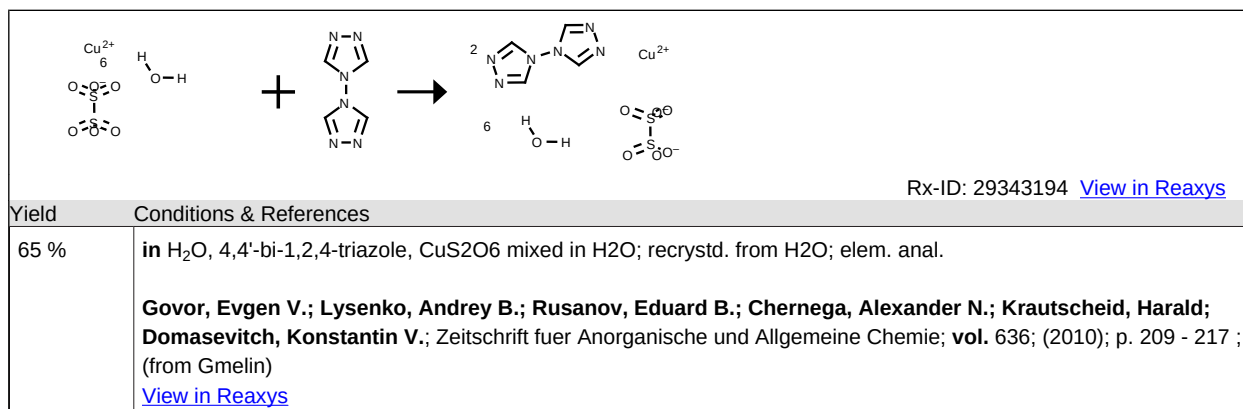
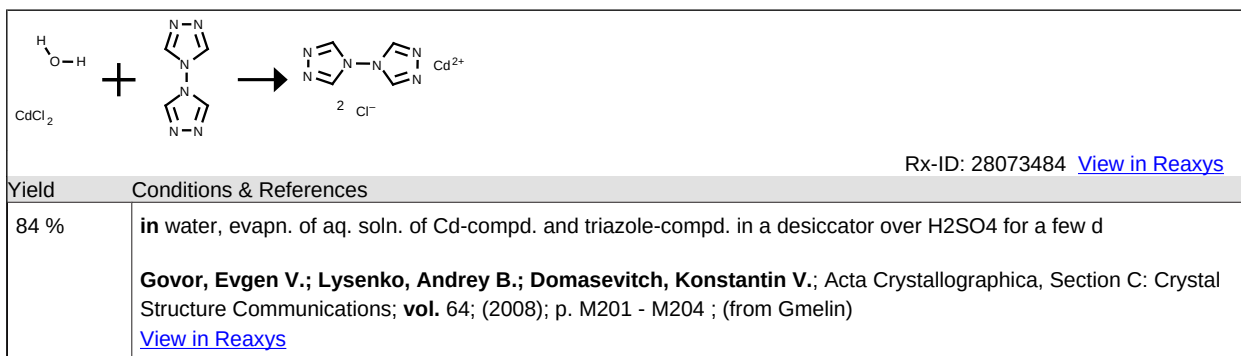
Yield	Conditions & References
80 %	in H₂O, 4,4'-bi-1,2,4-triazole, Cu(CCl₃COO)₂ heated in H₂O at 90-100.deg.C; pptd. within a wk; elem. anal. Govor, Evgen V.; Lysenko, Andrey B.; Rusanov, Eduard B.; Chernega, Alexander N.; Krautscheid, Harald; Domasevitch, Konstantin V.; Zeitschrift fuer Anorganische und Allgemeine Chemie; vol. 636; (2010); p. 209 - 217 ; (from Gmelin) View in Reaxys


 Rx-ID: 27140480 [View in Reaxys](#)

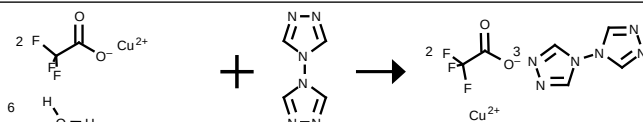
Yield	Conditions & References
	With ascorbic acid powder in methanol, water, addn. of ligend (in 50percent aq. MeOH at 60.deg.C) to Fe-salt in water (at60.deg.C); crystn. on evapn. at room temp. (1 week); elem. anal. Garcia, Yann; Kahn, Olivier; Rabardel, Louis; Chansou, Benoit; Salmon, Lionel; Tuchagues, Jean Pierre; Inorganic Chemistry; vol. 38; (1999); p. 4663 - 4670 ; (from Gmelin) View in Reaxys


 Rx-ID: 27485705 [View in Reaxys](#)

Yield	Conditions & References
60 %, 10 %	in methanol, water, slow interdiffusion of soln. of CuCl₂*2H₂O in MeOH and 4,4'-bi(1,2,4-triazole) in water for 9-10 ds; crystn., elem. anal. Lysenko, Andrey B.; Govor, Evgen V.; Krautscheid, Harald; Domasevitch, Konstantin V.; Dalton Transactions; (2006); p. 3772 - 3776 ; (from Gmelin) View in Reaxys



Govor, Evgen V.; Lysenko, Andrey B.; Rusanov, Eduard B.; Chernega, Alexander N.; Krautscheid, Harald; Domasevitch, Konstantin V.; Zeitschrift fuer Anorganische und Allgemeine Chemie; **vol.** 636; (2010); p. 209 - 217 ; (from Gmelin)
[View in Reaxys](#)

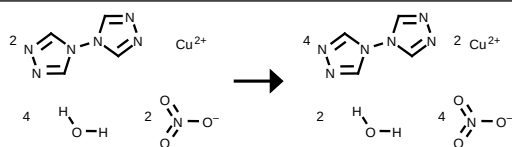


Rx-ID: 29343190 [View in Reaxys](#)

Yield **Conditions & References**

50 % in H₂O, crystd. by slow evapn. of H₂O soln. of 4,4'-bi-1,2,4-triazole, and Cu(CF₃COO)₂ within a wk; elem. anal.

Govor, Evgen V.; Lysenko, Andrey B.; Rusanov, Eduard B.; Chernega, Alexander N.; Krautscheid, Harald; Domasevitch, Konstantin V.; Zeitschrift fuer Anorganische und Allgemeine Chemie; **vol.** 636; (2010); p. 209 - 217 ; (from Gmelin)
[View in Reaxys](#)

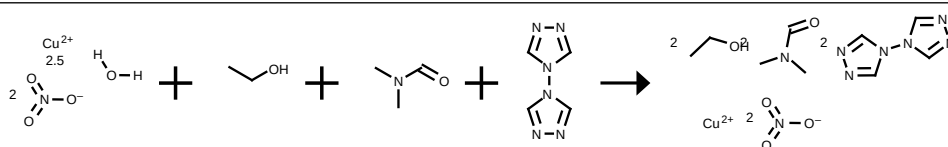


Rx-ID: 29343192 [View in Reaxys](#)

Yield **Conditions & References**

>99 % transforms upon standing 1 d; elem. anal.

Govor, Evgen V.; Lysenko, Andrey B.; Rusanov, Eduard B.; Chernega, Alexander N.; Krautscheid, Harald; Domasevitch, Konstantin V.; Zeitschrift fuer Anorganische und Allgemeine Chemie; **vol.** 636; (2010); p. 209 - 217 ; (from Gmelin)
[View in Reaxys](#)

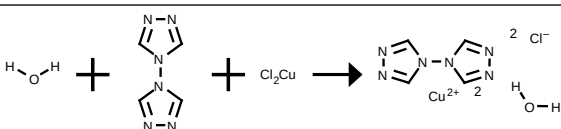


Rx-ID: 29343187 [View in Reaxys](#)

Yield **Conditions & References**

55 % in ethanol, dimethylformamide, EtOH soln. of Cu(NO₃)₂ layered over a DMF soln. of 4,4'-bi-1,2,4-triazole; crystd. upon standing for a wk; elem. anal.

Govor, Evgen V.; Lysenko, Andrey B.; Rusanov, Eduard B.; Chernega, Alexander N.; Krautscheid, Harald; Domasevitch, Konstantin V.; Zeitschrift fuer Anorganische und Allgemeine Chemie; **vol.** 636; (2010); p. 209 - 217 ; (from Gmelin)
[View in Reaxys](#)

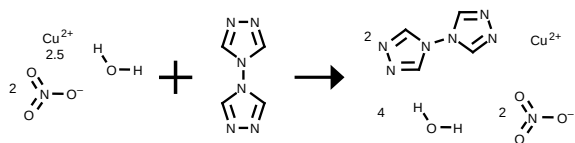


Rx-ID: 28064864 [View in Reaxys](#)

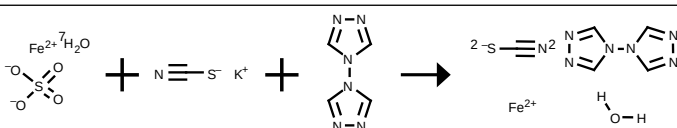
Yield **Conditions & References**

39.1 % in ethanol, water, ethanolic soln. of org. ligand (0.1 mmol) added into aq. soln. of CuCl₂ (0.2 mmol); stirred (room temp., 6 h); filtered; evapd.; elem. anal.

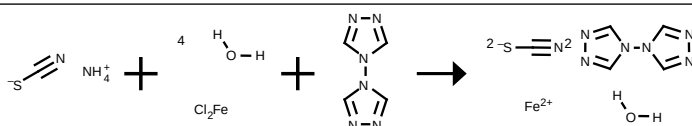
Zhang, Xiu-Cheng; Chen, Yong-Hong; Liu, Bing; Inorganic Chemistry Communications; **vol.** 11; (2008); p. 446 - 449 ; (from Gmelin)

[View in Reaxys](#)

 Rx-ID: 29343188 [View in Reaxys](#)

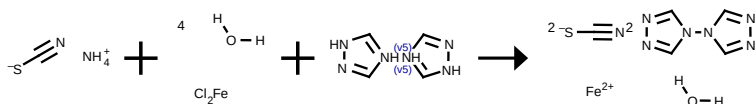
Yield	Conditions & References
30 %	in H₂O, 4,4'-bi-1,2,4-triazole, Cu(NO₃)₂ mixed in H₂O; crystd. upon standing within few h; elem. anal. Govor, Evgen V.; Lysenko, Andrey B.; Rusanov, Eduard B.; Chernega, Alexander N.; Krautscheid, Harald; Domasevitch, Konstantin V.; Zeitschrift fuer Anorganische und Allgemeine Chemie; vol. 636; (2010); p. 209 - 217 ; (from Gmelin) View in Reaxys


 Rx-ID: 26697774 [View in Reaxys](#)

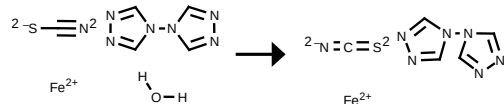
Yield	Conditions & References
	With ascorbic acid powder in ethanol, water, addn. of KNCS and a hot soln. of the bitriazole in H₂O/EtOH to a hot soln. of the Fe salt and ascorbic acid; evapn., filtration, drying in air; elem. anal. Lavrenova, L. G.; Shakirova, O. G.; Shvedenkov, Yu. G.; Ikorskii, V. N.; Varnek, V. A.; et al.; Russian Journal of Coordination Chemistry; vol. 25; (1999); p. 192 - 197; Koordinatsionnaya Khimiya; vol. 25; (1999); p. 208 - 213 ; (from Gmelin) View in Reaxys


 Rx-ID: 26663850 [View in Reaxys](#)

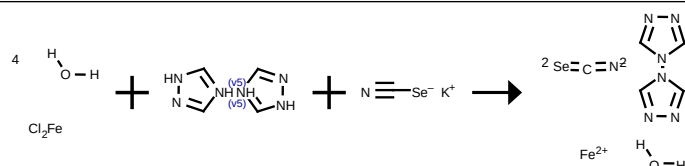
Yield	Conditions & References
	in water, reacting the metal salt, the bis(triazole) ligand and ammonium thiocyanate in water around 70.deg.C; elem. anal. Martin, Jean-Pierre; Zarembowitch, Jacqueline; Dworkin, Ary; Haasnoot, Jaap G.; Codjovi, Epiphane; Inorganic Chemistry; vol. 33; (1994); p. 2617 - 2623 ; (from Gmelin) View in Reaxys


 Rx-ID: 26663851 [View in Reaxys](#)

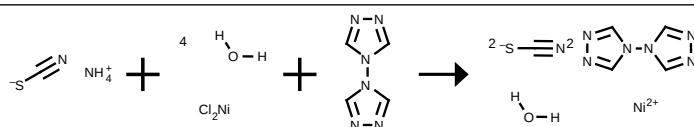
Yield	Conditions & References
	in water, a hot soln. contg. FeCl₂*H₂O and NH₄SCN in H₂O is mixed with a soln. of bitriazole in H₂O; hot soln. is filtered, cooled in a refrigerator, ppt. is filtered off, recrystd. from hot H₂O. Ozarowski, Andrzej; Shunzhong, Yu; McGarvey, Bruce R.; Mislankar, Anil; Drake, John E.; Inorganic Chemistry; vol. 30; (1991); p. 3167 - 3174 ; (from Gmelin) View in Reaxys


Rx-ID: 26751361 [View in Reaxys](#)

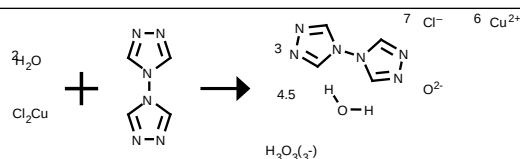
Yield	Conditions & References
	in neat (no solvent), byproducts: water; dehydration at temps. above 240 K and at 10 mmHg press.; identified by IR Vreugdenhil, Wim; Diemen, John H. van; Graaff, Rudolf A. E. de; Haasnoot, Jaap G.; Reedijk, Jan; et al.; Polyhedron; vol. 9; (1990); p. 2971 - 2980 ; (from Gmelin) View in Reaxys


Rx-ID: 26765866 [View in Reaxys](#)

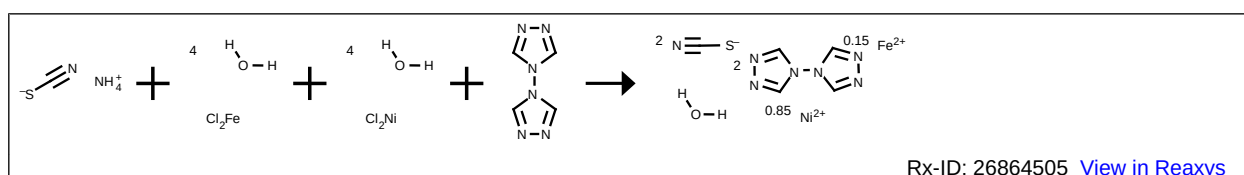
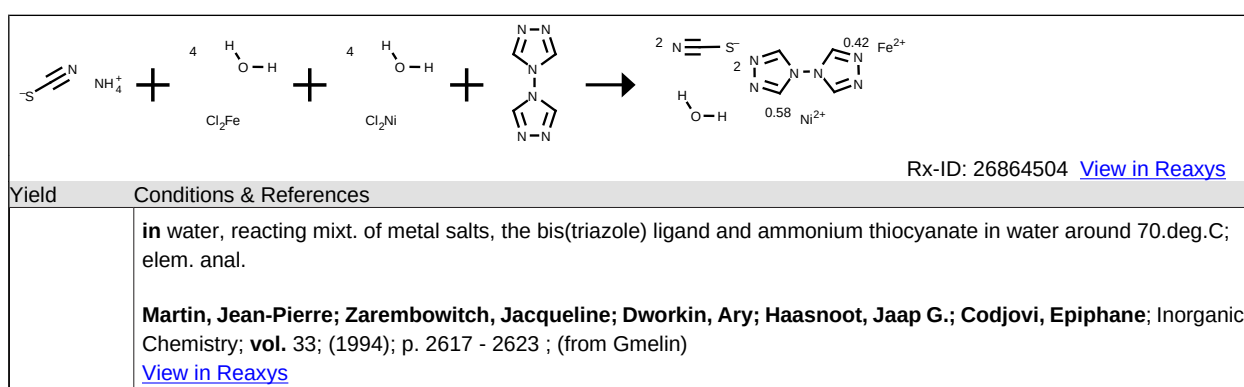
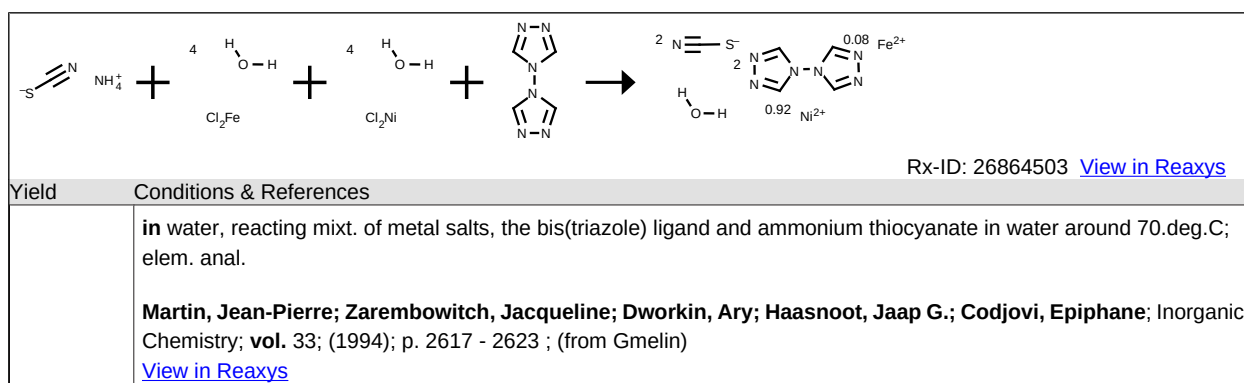
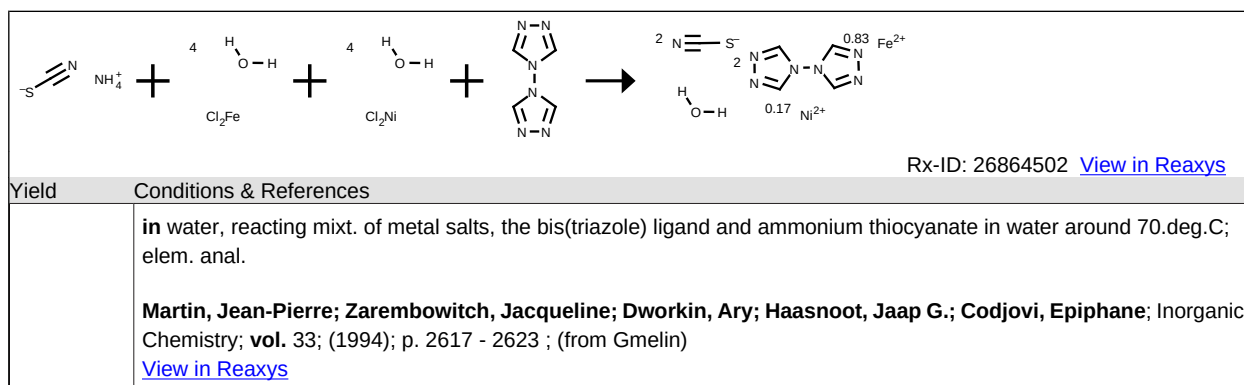
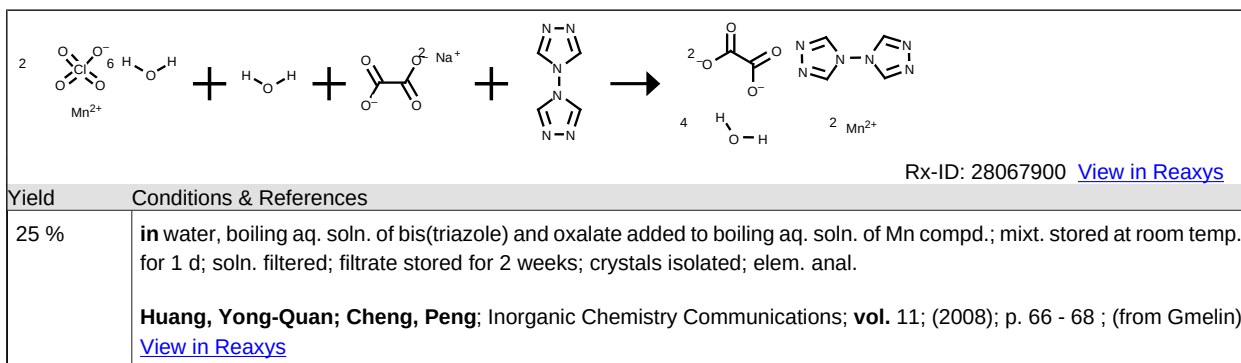
Yield	Conditions & References
	in water, a hot soln. contg. FeCl2*H2O and NH4SCN in H2O is mixed with a soln. of bitriazole in H2O; hot soln. is filtered, cooled in a refrigerator, ppt. is filtered off, recrystd. from hot H2O. Ozarowski, Andrzej; Shunzhong, Yu; McGarvey, Bruce R.; Mislankar, Anil; Drake, John E.; Inorganic Chemistry; vol. 30; (1991); p. 3167 - 3174 ; (from Gmelin) View in Reaxys


Rx-ID: 26864745 [View in Reaxys](#)

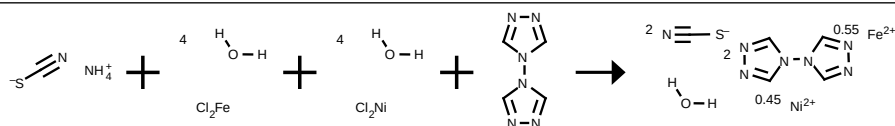
Yield	Conditions & References
	in water, reacting mixt. of metal salts, the bis(triazole) ligand and ammonium thiocyanate in water around 70.deg.C; elem. anal. Martin, Jean-Pierre; Zarembowitch, Jacqueline; Dworkin, Ary; Haasnoot, Jaap G.; Codjovi, Epiphane; Inorganic Chemistry; vol. 33; (1994); p. 2617 - 2623 ; (from Gmelin) View in Reaxys


Rx-ID: 27485707 [View in Reaxys](#)

Yield	Conditions & References
	in water, slow evapn. of aq. soln. of CuCl2*2H2O and 4,4'-bi(1,2,4-triazole) at room temp. for several weeks; crystn. Lysenko, Andrey B.; Govor, Evgen V.; Krautscheid, Harald; Domasevitch, Konstantin V.; Dalton Transactions; (2006); p. 3772 - 3776 ; (from Gmelin) View in Reaxys

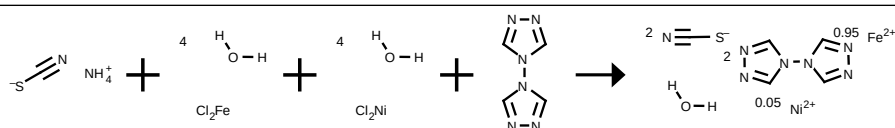


Yield	Conditions & References
	in water, reacting mixt. of metal salts, the bis(triazole) ligand and ammonium thiocyanate in water around 70.deg.C; elem. anal. Martin, Jean-Pierre; Zarembowitch, Jacqueline; Dworkin, Ary; Haasnoot, Jaap G.; Codjovi, Epiphane; Inorganic Chemistry; vol. 33; (1994); p. 2617 - 2623 ; (from Gmelin) View in Reaxys



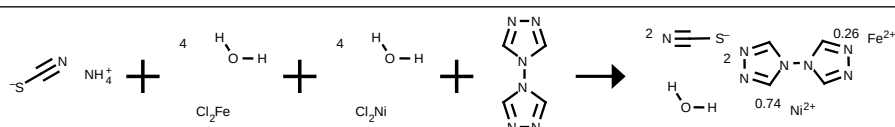
Rx-ID: 26864506 [View in Reaxys](#)

Yield	Conditions & References
	in water, reacting mixt. of metal salts, the bis(triazole) ligand and ammonium thiocyanate in water around 70.deg.C; elem. anal. Martin, Jean-Pierre; Zarembowitch, Jacqueline; Dworkin, Ary; Haasnoot, Jaap G.; Codjovi, Epiphane; Inorganic Chemistry; vol. 33; (1994); p. 2617 - 2623 ; (from Gmelin) View in Reaxys



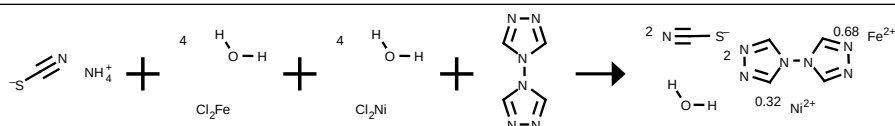
Rx-ID: 26864507 [View in Reaxys](#)

Yield	Conditions & References
	in water, reacting mixt. of metal salts, the bis(triazole) ligand and ammonium thiocyanate in water around 70.deg.C; elem. anal. Martin, Jean-Pierre; Zarembowitch, Jacqueline; Dworkin, Ary; Haasnoot, Jaap G.; Codjovi, Epiphane; Inorganic Chemistry; vol. 33; (1994); p. 2617 - 2623 ; (from Gmelin) View in Reaxys



Rx-ID: 26864508 [View in Reaxys](#)

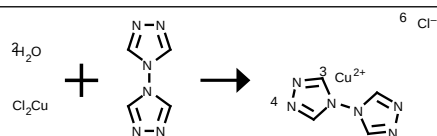
Yield	Conditions & References
	in water, reacting mixt. of metal salts, the bis(triazole) ligand and ammonium thiocyanate in water around 70.deg.C; elem. anal. Martin, Jean-Pierre; Zarembowitch, Jacqueline; Dworkin, Ary; Haasnoot, Jaap G.; Codjovi, Epiphane; Inorganic Chemistry; vol. 33; (1994); p. 2617 - 2623 ; (from Gmelin) View in Reaxys



Rx-ID: 26864509 [View in Reaxys](#)

Yield	Conditions & References
	in water, reacting mixt. of metal salts, the bis(triazole) ligand and ammonium thiocyanate in water around 70.deg.C; elem. anal.

Martin, Jean-Pierre; Zarembowitch, Jacqueline; Dworkin, Ary; Haasnoot, Jaap G.; Codjovi, Epiphane; Inorganic Chemistry; **vol.** 33; (1994); p. 2617 - 2623 ; (from Gmelin)
[View in Reaxys](#)



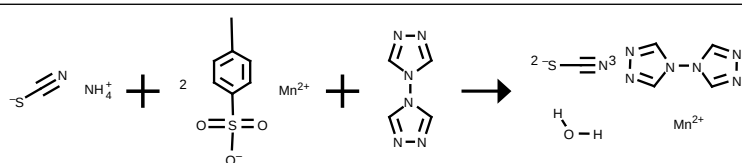
Rx-ID: 27485704 [View in Reaxys](#)

Yield Conditions & References

in methanol, water, two portions of aq. MeOH (1:1 and then 2:1 v/v/ MeOH/H2O) layered over aq. soln. of bitriazole (0.20 mmol); MeOH soln. of CuCl2*2H2O (0.20 mmol) layered over; kept (7-8 d); elem. anal.

Lysenko, Andrey B.; Govor, Evgen V.; Domasevitch, Konstantin V.; Inorganica Chimica Acta; **vol.** 360; (2007); p. 55 - 60 ; (from Gmelin)

[View in Reaxys](#)



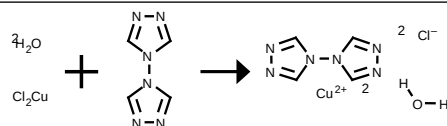
Rx-ID: 27202959 [View in Reaxys](#)

Yield Conditions & References

in ethanol, addn. of 3 equiv. of azole and 2 equiv. of NH4SCN to Mn-salt soln.; crystn. (few d); elem. anal.

Zilverentant, Carolien L.; Driessen, Willem L.; Haasnoot, Jaap G.; Kolnaar, Jeroen J. A.; Reedijk, Jan; Inorganica Chimica Acta; **vol.** 282; (1998); p. 257 - 260 ; (from Gmelin)

[View in Reaxys](#)



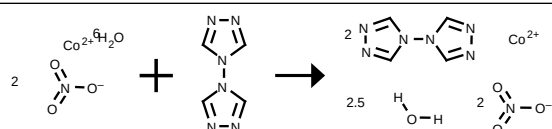
Rx-ID: 27226329 [View in Reaxys](#)

Yield Conditions & References

in water, isopropyl alcohol, adding warm soln. of ligand to heated soln. of metal salt, removal of excess solvent by heating on water bath (.apprx.2/3 of the vol.), cooling; filtering ppt. off, washing with solvent, drying in vac. desiccator overanhydron; elem. anal.

Lavrenova, L. G.; Bikzhanova, G. A.; Sheludyakova, L. A.; Ikorskii, V. N.; Shvedenkov, Yu. G.; Russian Journal of Inorganic Chemistry (Translation of Zhurnal Neorganicheskoi Khimii); **vol.** 46; (2001); p. 1674 - 1677; Zhurnal Neorganicheskoi Khimii; **vol.** 46; (2001); p. 1841 - 1844 ; (from Gmelin)

[View in Reaxys](#)



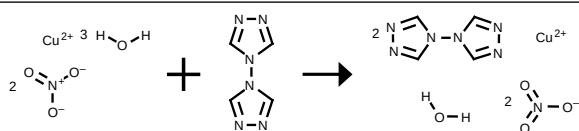
Rx-ID: 27233079 [View in Reaxys](#)

Yield Conditions & References

in water, isopropyl alcohol, adding warm soln. of ligand to heated soln. of metal salt, removal of excess solvent by heating on water bath (.apprx.2/3 of the vol.), cooling; filtering ppt. off, washing with solvent, drying in vac. desiccator overanhydron; elem. anal.

Lavrenova, L. G.; Bikzhanova, G. A.; Sheludyakova, L. A.; Ikorskii, V. N.; Shvedenkov, Yu. G.; Russian Journal of Inorganic Chemistry (Translation of Zhurnal Neorganicheskoi Khimii); **vol. 46**; (2001); p. 1674 - 1677; Zhurnal Neorganicheskoi Khimii; **vol. 46**; (2001); p. 1841 - 1844 ; (from Gmelin)

[View in Reaxys](#)



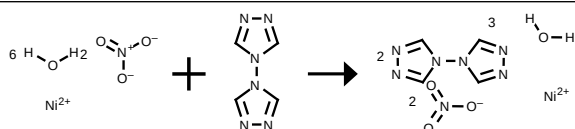
Rx-ID: 27279540 [View in Reaxys](#)

Yield **Conditions & References**

in water, isopropyl alcohol, adding warm soln. of ligand to heated soln. of metal salt, removal of excess solvent by heating on water bath (.apprx.2/3 of the vol.), cooling; filtering ppt. off, washing with solvent, drying in vac. desiccator overanhydron; elem. anal.

Lavrenova, L. G.; Bikzhanova, G. A.; Sheludyakova, L. A.; Ikorskii, V. N.; Shvedenkov, Yu. G.; Russian Journal of Inorganic Chemistry (Translation of Zhurnal Neorganicheskoi Khimii); **vol. 46**; (2001); p. 1674 - 1677; Zhurnal Neorganicheskoi Khimii; **vol. 46**; (2001); p. 1841 - 1844 ; (from Gmelin)

[View in Reaxys](#)



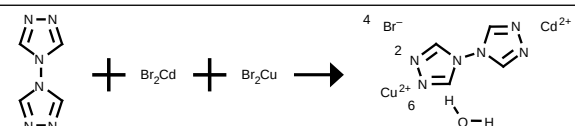
Rx-ID: 27283796 [View in Reaxys](#)

Yield **Conditions & References**

in water, isopropyl alcohol, adding warm soln. of ligand to heated soln. of metal salt, removal of excess solvent by heating on water bath (.apprx.2/3 of the vol.), cooling; filtering ppt. off, washing with solvent, drying in vac. desiccator overanhydron; elem. anal.

Lavrenova, L. G.; Bikzhanova, G. A.; Sheludyakova, L. A.; Ikorskii, V. N.; Shvedenkov, Yu. G.; Russian Journal of Inorganic Chemistry (Translation of Zhurnal Neorganicheskoi Khimii); **vol. 46**; (2001); p. 1674 - 1677; Zhurnal Neorganicheskoi Khimii; **vol. 46**; (2001); p. 1841 - 1844 ; (from Gmelin)

[View in Reaxys](#)



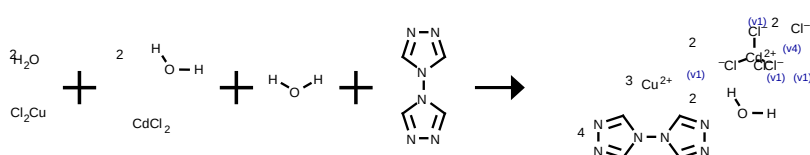
Rx-ID: 29343195 [View in Reaxys](#)

Yield **Conditions & References**

in H₂O, 4,4'-bi-1,2,4-triazole, CuBr₂, CdBr₂ mixed in H₂O; crystd. upon standing within few h; elem. anal.

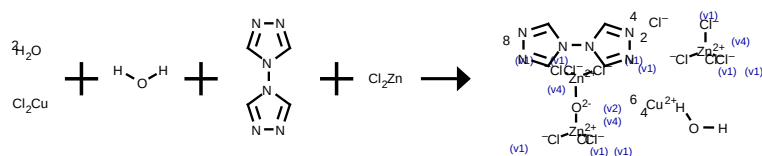
Govor, Evgen V.; Lysenko, Andrey B.; Rusanov, Eduard B.; Chernega, Alexander N.; Krautscheid, Harald; Domasevitch, Konstantin V.; Zeitschrift fuer Anorganische und Allgemeine Chemie; **vol. 636**; (2010); p. 209 - 217 ; (from Gmelin)

[View in Reaxys](#)

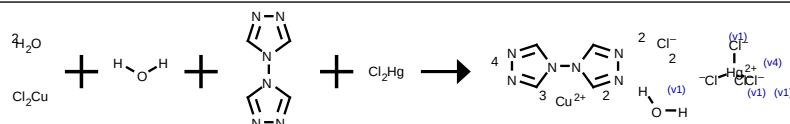


Rx-ID: 27485374 [View in Reaxys](#)

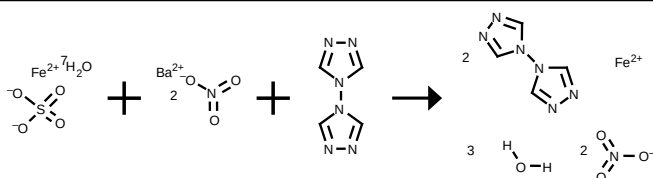
Yield	Conditions & References
	in water, aq. soln. of CuCl₂·2H₂O (0.10 mmol) and CdCl₂·H₂O (0.10 mmol) added to aq. soln. of bitriazole (0.10 mmol); evapd. (room temp., vac. desiccator, over concd. H₂SO₄, few d); elem. anal. Lysenko, Andrey B.; Govor, Evgen V.; Domasevitch, Konstantin V.; Inorganica Chimica Acta; vol. 360; (2007); p. 55 - 60 ; (from Gmelin) View in Reaxys


Rx-ID: 27485405 [View in Reaxys](#)

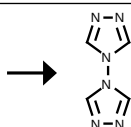
Yield	Conditions & References
	in water, aq. soln. of CuCl₂·2H₂O (0.10 mmol) and ZnCl₂ (0.10 mmol) added to aq. soln. of bitriazole (0.10 mmol); evapd. (room temp., vac. desiccator, over concd. H₂SO₄, few d); elem. anal. Lysenko, Andrey B.; Govor, Evgen V.; Domasevitch, Konstantin V.; Inorganica Chimica Acta; vol. 360; (2007); p. 55 - 60 ; (from Gmelin) View in Reaxys


Rx-ID: 27485406 [View in Reaxys](#)

Yield	Conditions & References
	in water, aq. soln. of CuCl₂·2H₂O (0.10 mmol) and HgCl₂ (0.10 mmol) added to aq. soln. of bitriazole (0.10 mmol); evapd. (room temp., vac. desiccator, over concd. H₂SO₄, few d); elem. anal. Lysenko, Andrey B.; Govor, Evgen V.; Domasevitch, Konstantin V.; Inorganica Chimica Acta; vol. 360; (2007); p. 55 - 60 ; (from Gmelin) View in Reaxys


Rx-ID: 27521256 [View in Reaxys](#)

Yield	Conditions & References
	in ethanol, water, nitric acid, byproducts: BaSO₄; heating the Fe and Ba salt in aq. HNO₃ on a water-bath, after pptn. of BaSO₄ standing (3 h), filtration, addn. of the bitriazole in EtOH/H₂O; evapn., filtration, drying in air; elem. anal. Lavrenova, L. G.; Shakirova, O. G.; Shvedenkov, Yu. G.; Ikorskii, V. N.; Varnek, V. A.; et al.; Russian Journal of Coordination Chemistry; vol. 25; (1999); p. 192 - 197; Koordinatsionnaya Khimiya; vol. 25; (1999); p. 208 - 213 ; (from Gmelin) View in Reaxys


Rx-ID: 5932976 [View in Reaxys](#)

Yield	Conditions & References
	Hydrazinhydrat, Ameisensäure Haasnoot; Groeneveld ; Zeitschrift fuer Naturforschung, Teil B: Anorganische Chemie, Organische Chemie; vol. 34; (1979); p. 1500,1501 View in Reaxys
	N,N-Dimethyl-formamid-azin, 4-Amino-1,2,4-triazol, p-Toluolsulfonsäure Bartlett,R.K.; Humphrey,I.R. ; Journal of the Chemical Society [Section] C: Organic; (1967); p. 1664 - 1666 View in Reaxys