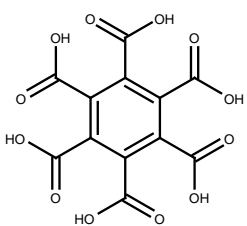
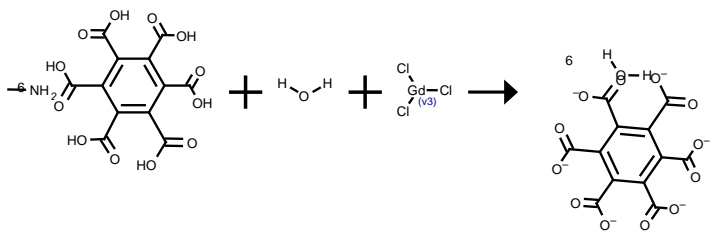
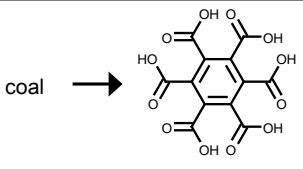
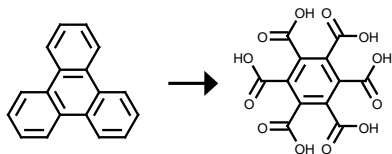


Query

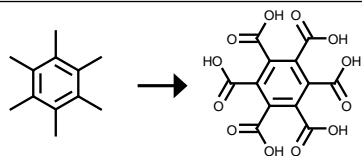
	Query	Results	Date
1. Query	 <p>Search as: Product, As drawn, No salts, No mixtures</p>	81 reactions	2012-01-26 07h:27m:00s (EST)

2 Gd ³⁺	
	
Rx-ID: 28325314 View in Reaxys 1/81	
Yield	Conditions & References
84.4 %	<p>in water, aq. (C₆(COO)₆)(CH₃NH₃)₆ and aq. GdCl₃ added to cetyltrimethylammonium bromide/1-hexanol/n-heptane/H₂O stirred for 10 min at room temp., combined, heated to 120.deg.C for 18 h, cooled to room temp.; centrifugated, supernatant removed, washed with EtOH, centrifugated</p> <p>Taylor, Kathryn M. L.; Jin, Athena; Lin, Wenbin; Angewandte Chemie, International Edition; vol. 47; (2008); p. 7722 - 7725; Angewandte Chemie; vol. 120; (2008); p. 7836 - 7839 ; (from Gmelin)</p> <p>View in Reaxys</p>

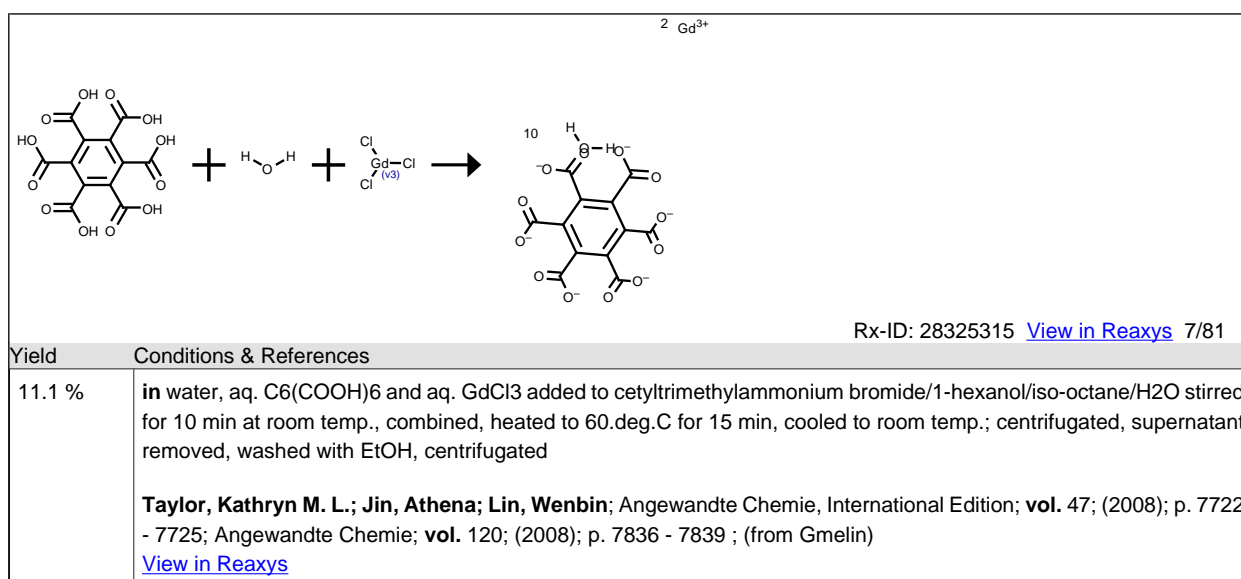
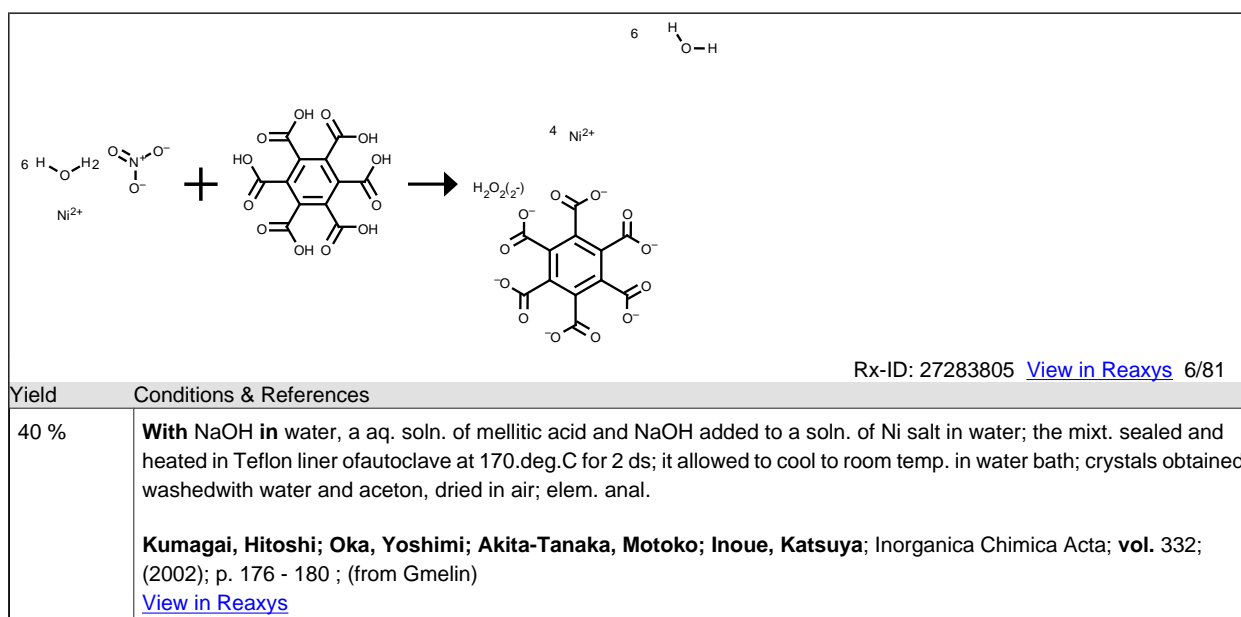
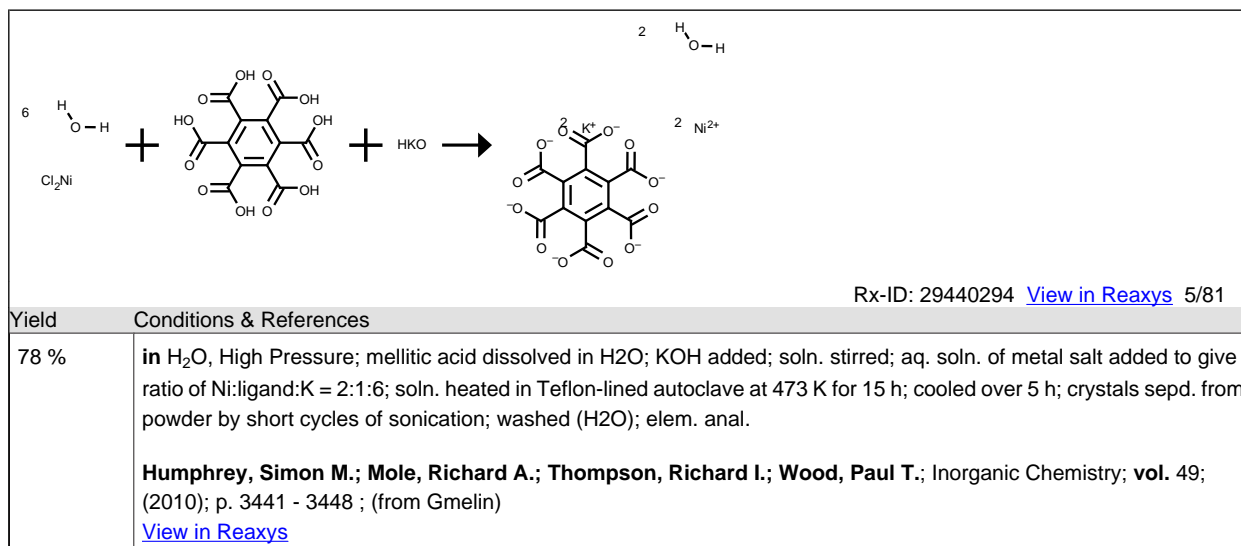
	
Rx-ID: 7379428 View in Reaxys 2/81	
Yield	Conditions & References
	<p>With nitric acid, vanadium pentoxide</p> <p>Meyer; Raudnitz; Chemische Berichte; vol. 63; (1930); p. 2010,2013</p> <p>View in Reaxys</p>
	<p>With potassium permanganate, nitric acid</p> <p>Patent; Carnegie Inst. Technol.; US2176348; (1937)</p> <p>View in Reaxys</p> <p>Schulz; Howard; Journal of the American Chemical Society; vol. 68; (1946); p. 991,993</p> <p>View in Reaxys</p> <p>Mustafin; Zhurnal Obshchei Khimii; vol. 17; (1947); p. 557</p> <p>View in Reaxys</p> <p>Vallesi; Annali di Chimica Applicata; vol. 29; (1939); p. 455,461</p> <p>View in Reaxys</p> <p>Patent; Carnegie Inst. Technol.; US2250204; (1939)</p> <p>View in Reaxys</p> <p>Juettner; Journal of the American Chemical Society; vol. 59; (1937); p. 208,211</p> <p>View in Reaxys</p>
	<p>With nitric acid</p> <p>Patent; Staatsmijnen Limburg; US2640075; (1953)</p> <p>View in Reaxys</p> <p>Brusset; Uny; Bulletin de la Societe Chimique de France; (1951); p. 565</p> <p>View in Reaxys</p> <p>Patent; Staatsmijnen Limburg; DE873542; (1951); DRP/DRBP Org.Chem.</p> <p>View in Reaxys</p> <p>Patent; Staatsmijnen Limburg; US2673216; (1950)</p> <p>View in Reaxys</p>

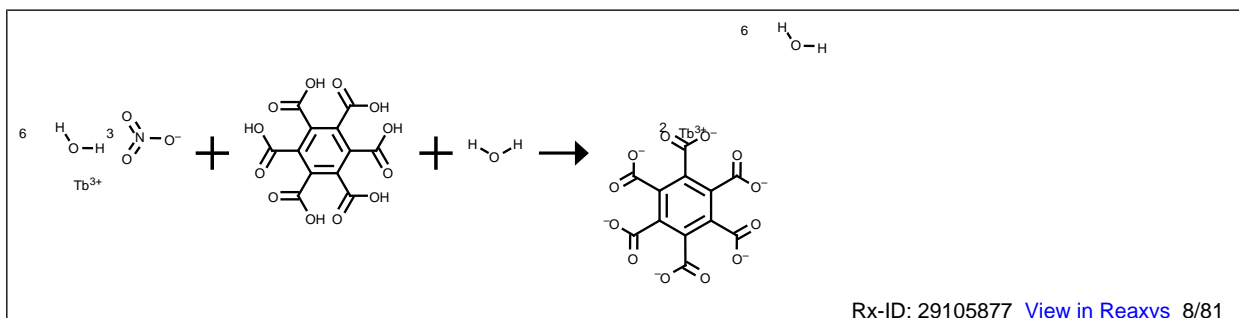

 Rx-ID: 127363 [View in Reaxys](#) 3/81

Yield	Conditions & References
	<p>With nitric acid, Behandeln des Reaktionsprodukts mit wss. Kalilauge und Kaliumpermanganat</p> <p>Patent: Carnegie Inst. Technol.; US2176348; (1937) View in Reaxys</p> <p>Juettner; Journal of the American Chemical Society; vol. 59; (1937); p. 1472,1474 View in Reaxys</p> <p>Patent: Carnegie Inst. Technol.; US2250204; (1939) View in Reaxys</p>
	<p>With nitric acid, T= 150 °C , im geschlossenen Rohr</p> <p>Mannich; Chemische Berichte; vol. 40; (1907); p. 160 View in Reaxys</p>

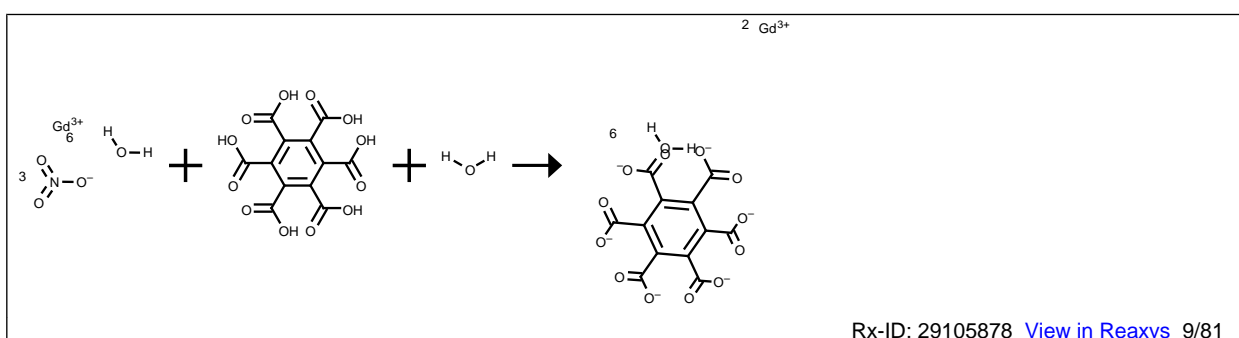

 Rx-ID: 279605 [View in Reaxys](#) 4/81

Yield	Conditions & References
	<p>With nitric acid, T= 160 °C</p> <p>Wibaut et al.; Recueil des Travaux Chimiques des Pays-Bas; vol. 60; (1941); p. 742,744, 745 View in Reaxys</p>
	<p>With potassium permanganate</p> <p>Fishwick; Journal of the Chemical Society; (1957); p. 1196,1198 View in Reaxys</p> <p>Chaigneau; Annales de Chimie (Cachan, France); vol. <13> 1; (1956); p. 381,395; Annales Pharmaceutiques Francaises; vol. 15; (1957); p. 224 View in Reaxys</p>
	<p>With nitric acid</p> <p>Chaigneau; Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences; vol. 233; (1951); p. 692 View in Reaxys</p>
	<p>With potassium permanganate, water</p> <p>Friedel; Crafts; Annales de Chimie (Cachan, France); vol. <6> 1; (1884); p. 482; Annales de Chimie (Cachan, France); vol. <6> 11; (1887); p. 266 View in Reaxys</p>

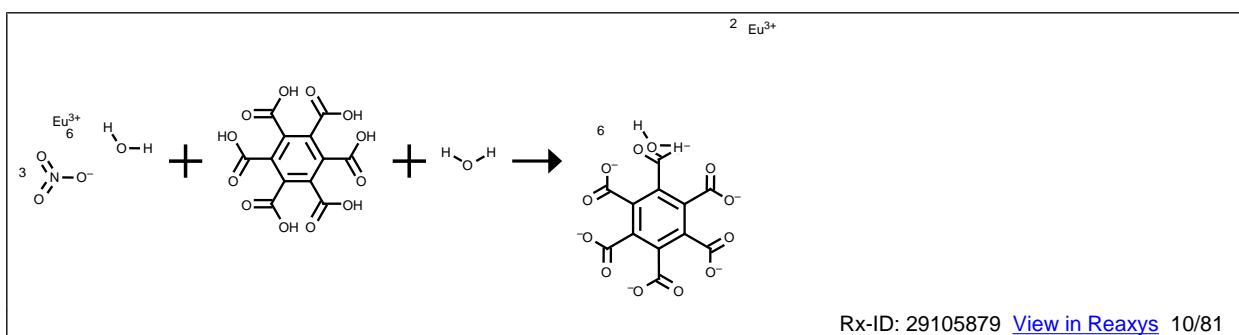



 Rx-ID: 29105877 [View in Reaxys](#) 8/81

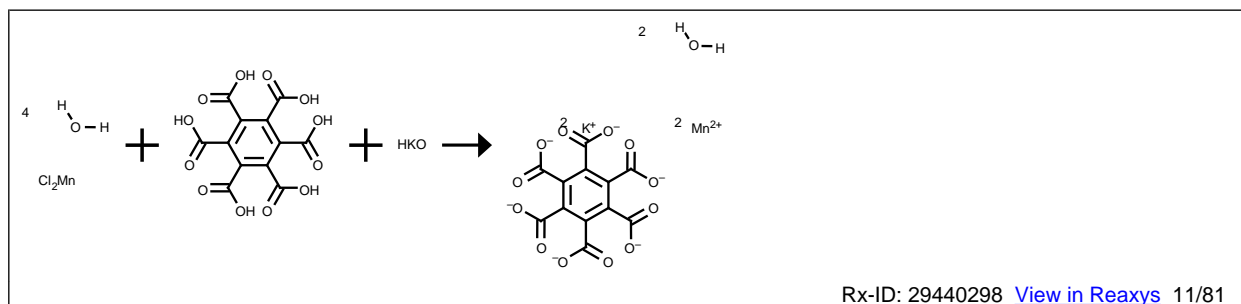
Yield	Conditions & References
75 %	<p>in water, High Pressure; mellitic acid, Tb(NO₃)₃·6H₂O and water placed into Teflon-lined autoclave; autoclave heated at 433 K for 72 h and then cooled to room temp.; ppt. washed with water and acetone and dried in open air; XRD</p> <p>Rodrigues, Marcelo O.; Paz, Filipe A. Almeida; Freire, Ricardo O.; Sa, Gilberto F. de; Galembeck, Andre; et al.; The Journal of Physical Chemistry B; vol. 113; (2009); p. 12181 - 12188 ; (from Gmelin)</p> <p>View in Reaxys</p>


 Rx-ID: 29105878 [View in Reaxys](#) 9/81

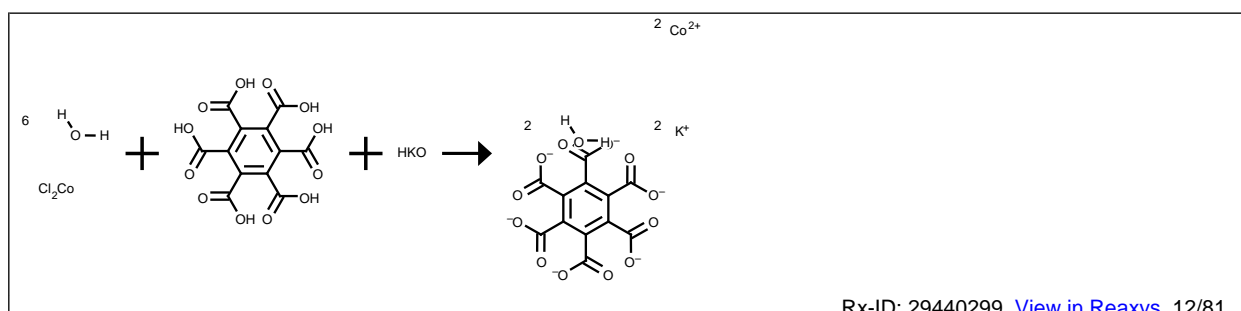
Yield	Conditions & References
75 %	<p>in water, High Pressure; mellitic acid, Gd(NO₃)₃·6H₂O and water placed into Teflon-lined autoclave; autoclave heated at 433 K for 72 h and then cooled to room temp.; ppt. washed with water and acetone and dried in open air; XRD</p> <p>Rodrigues, Marcelo O.; Paz, Filipe A. Almeida; Freire, Ricardo O.; Sa, Gilberto F. de; Galembeck, Andre; et al.; The Journal of Physical Chemistry B; vol. 113; (2009); p. 12181 - 12188 ; (from Gmelin)</p> <p>View in Reaxys</p>


 Rx-ID: 29105879 [View in Reaxys](#) 10/81

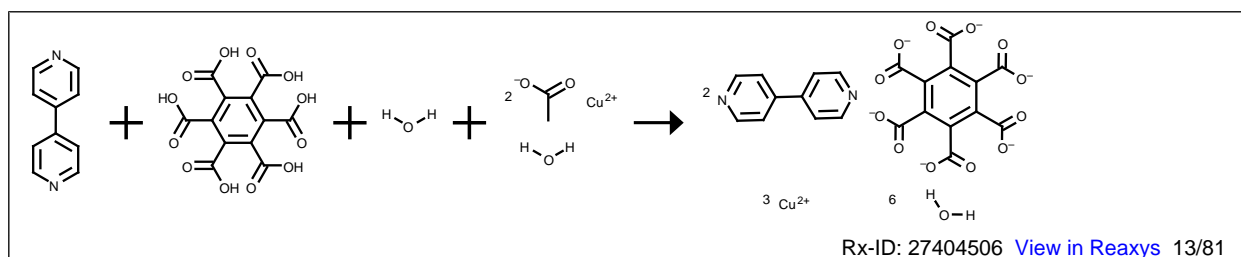
Yield	Conditions & References
75 %	<p>in water, High Pressure; mellitic acid, Eu(NO₃)₃·6H₂O and water placed into Teflon-lined autoclave; autoclave heated at 433 K for 72 h and then cooled to room temp.; ppt. washed with water and acetone and dried in open air; XRD</p> <p>Rodrigues, Marcelo O.; Paz, Filipe A. Almeida; Freire, Ricardo O.; Sa, Gilberto F. de; Galembeck, Andre; et al.; The Journal of Physical Chemistry B; vol. 113; (2009); p. 12181 - 12188 ; (from Gmelin)</p> <p>View in Reaxys</p>



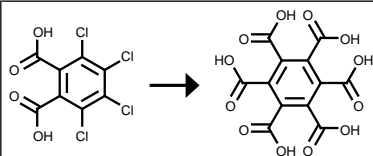
Yield	Conditions & References
72 %	<p>in H₂O, High Pressure; mellitic acid dissolved in H₂O; KOH added; soln. stirred; aq. soln. of metal salt added to give ratio of Mn:ligand:K = 2:1:6; soln. heated in Teflon-lined autoclave at 473 K for 15 h; cooled over 5 h; crystals sepd. from powder by short cycles of sonication; washed (H₂O); elem. anal.</p> <p>Humphrey, Simon M.; Mole, Richard A.; Thompson, Richard I.; Wood, Paul T.; Inorganic Chemistry; vol. 49; (2010); p. 3441 - 3448 ; (from Gmelin) View in Reaxys</p>



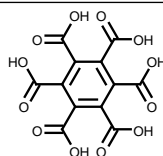
Yield	Conditions & References
74 %	<p>in H₂O, High Pressure; mellitic acid dissolved in H₂O; KOH added; soln. stirred; aq. soln. of metal salt added to give ratio of Co:ligand:K = 2:1:6; soln. heated in Teflon-lined autoclave at 473 K for 15 h; cooled over 5 h; crystals sepd. from powder by short cycles of sonication; washed (H₂O); elem. anal.</p> <p>Humphrey, Simon M.; Mole, Richard A.; Thompson, Richard I.; Wood, Paul T.; Inorganic Chemistry; vol. 49; (2010); p. 3441 - 3448 ; (from Gmelin) View in Reaxys</p>



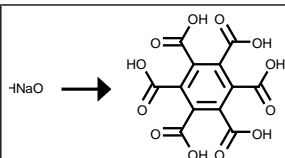
Yield	Conditions & References
70.7 %	<p>in water, High Pressure; mixt. of mellitic acid, 4,4'-bipyridine and Cu compd. (molar ratio 1:2:3) in H₂O heated at 145.deg.C for 3 d in bomb; elem. anal.</p> <p>Yang, E; Zhang, Jian; Li, Zhao-Ji; Gao, Song; Kang, Yao; et al.; Inorganic Chemistry; vol. 43; (2004); p. 6525 - 6527 ; (from Gmelin) View in Reaxys</p>


 Rx-ID: 284682 [View in Reaxys](#) 14/81

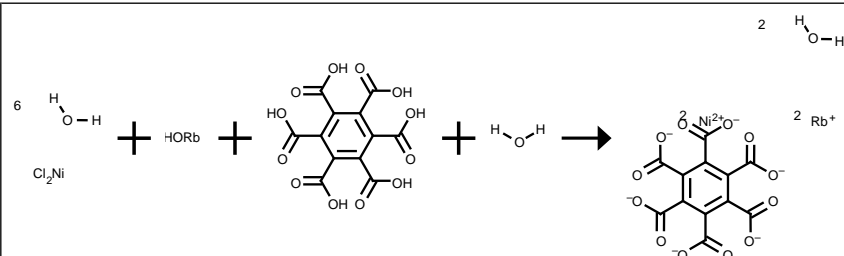
Yield	Conditions & References
	<p>With potassium cyanide, potassium hydroxide, copper (I) cyanide, T= 180 °C , Reinigung ueber das Blei(II)-Salz</p> <p>Feist; <i>Chemische Berichte</i>; vol. 68; (1935); p. 1941 View in Reaxys</p>
	<p>With potassium cyanide, potassium hydroxide, weiteres Reagens: H₂O</p> <p>Brusset; Uny; <i>Bulletin de la Societe Chimique de France</i>; (1951); p. 565 View in Reaxys</p>

 4.7-dimethyl-2.2.4'.4'-tetraethyl-5.6-<cyclo-
 penteno-(1'.2')>-hydrindene

 Rx-ID: 7379425 [View in Reaxys](#) 15/81

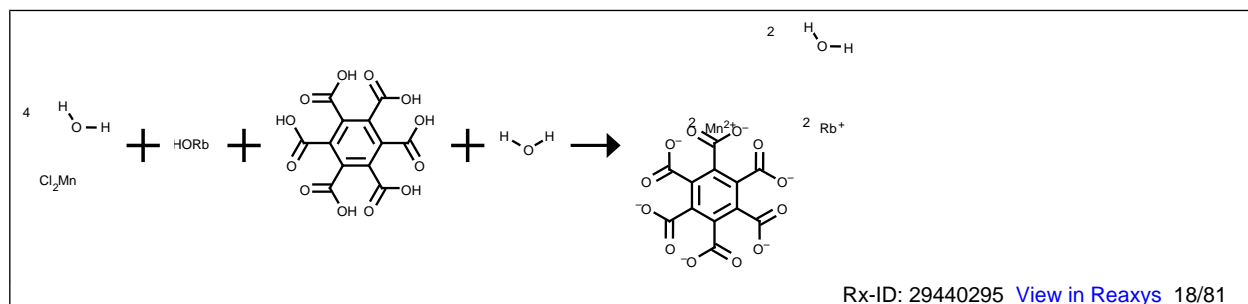
Yield	Conditions & References
	<p>With nitric acid, T= 140 - 150 °C , im Rohr</p> <p>Freund; Fleischer; <i>Justus Liebigs Annalen der Chemie</i>; vol. 414; (1918); p. 30; <i>Justus Liebigs Annalen der Chemie</i>; vol. 373; (1910); p. 308,310 View in Reaxys</p>


 Rx-ID: 26151773 [View in Reaxys](#) 16/81

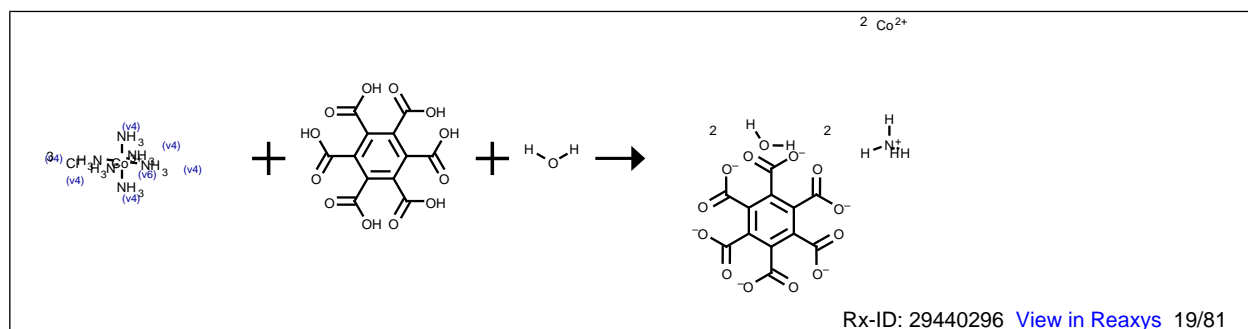
Yield	Conditions & References
	<p>With oxygen in water, byproducts: C₁₁H₆O₇, oxalate, formate, carbonate; heating 50 percent soln. of NaOH in presence of air with sugar coal or lamp black to 160.deg.C;</p> <p>Hofmann, K. A.; Schumpelt; Ritter; <i>Ber.</i>; vol. 46; (1913); p. 2862 - 2862 View in Reaxys vol. Na: MVol.; 54, page 237 - 239 ; (from Gmelin) View in Reaxys</p>


 Rx-ID: 29440293 [View in Reaxys](#) 17/81

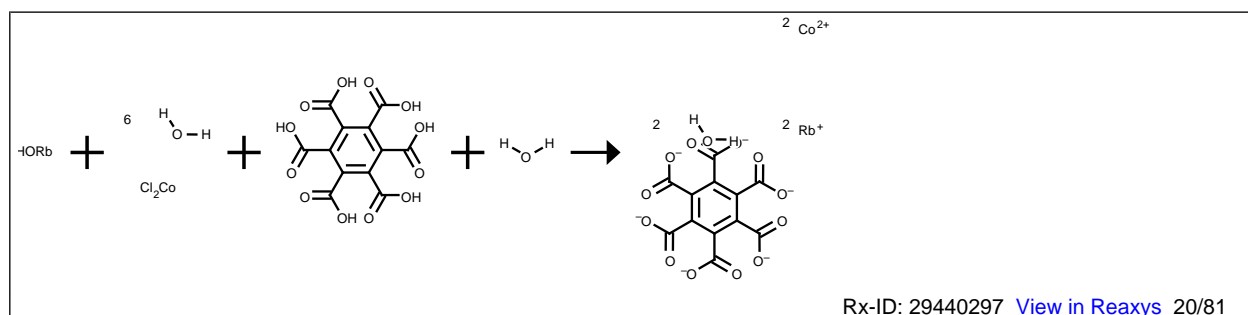
Yield	Conditions & References
39 %	<p>in H₂O, High Pressure; mellitic acid dissolved in H₂O; RbOH added; soln. stirred; aq. soln. of metal salt added to give ratio of Ni:ligand:Rb = 2:1:6; soln. heated in Teflon-lined autoclave at 473 K for 15 h; cooled over 5 h; crystals sepd. by vac. filtration, washed with H₂O or cleaned by short cycles of sonication; elem. anal.</p> <p>Humphrey, Simon M.; Mole, Richard A.; Thompson, Richard I.; Wood, Paul T.; Inorganic Chemistry; vol. 49; (2010); p. 3441 - 3448 ; (from Gmelin) View in Reaxys</p>



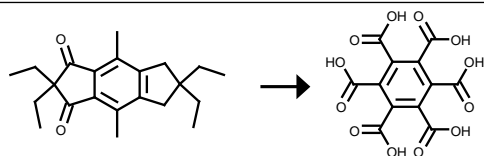
Yield	Conditions & References
43 %	<p>in H₂O, High Pressure; mellitic acid dissolved in H₂O; RbOH added; soln. stirred; aq. soln. of metal salt added to give ratio of Mn:ligand:Rb = 2:1:6; soln. heated in Teflon-lined autoclave at 473 K for 15 h; cooled over 5 h; crystals sepd. by vac. filtration, washing with H₂O or cleaned by short cycles of sonication; elem. anal.</p> <p>Humphrey, Simon M.; Mole, Richard A.; Thompson, Richard I.; Wood, Paul T.; Inorganic Chemistry; vol. 49; (2010); p. 3441 - 3448 ; (from Gmelin) View in Reaxys</p>



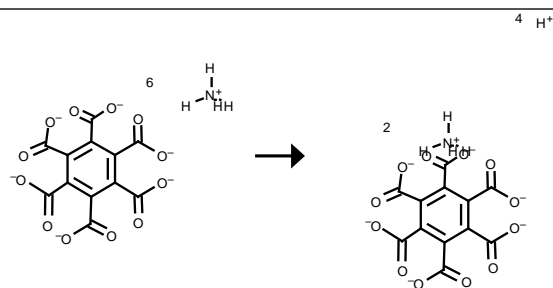
Yield	Conditions & References
30 %	<p>in H₂O, High Pressure; Co(NH₃)₆Cl₃ dissolved in H₂O; solid mellitic acid added; soln. heated in Teflon-lined autoclave at 513 K for 40 h; cooled over 8 h; crystals collected; washed (H₂O); dried (vac.); elem. anal.</p> <p>Humphrey, Simon M.; Mole, Richard A.; Thompson, Richard I.; Wood, Paul T.; Inorganic Chemistry; vol. 49; (2010); p. 3441 - 3448 ; (from Gmelin) View in Reaxys</p>



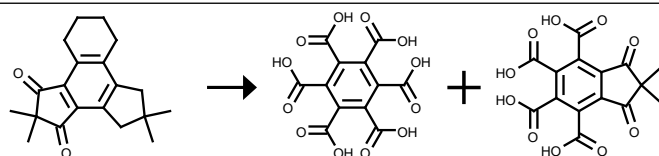
Yield	Conditions & References
39 %	<p>in H₂O, High Pressure; mellitic acid dissolved in H₂O; RbOH added; soln. stirred; aq. soln. of metal salt added to give ratio of Co:ligand:Rb = 2:1:6; soln. heated in Teflon-lined autoclave at 473 K for 15 h; cooled over 5 h; crystals sepd. by vac. filtration, washed with H₂O or cleaned by short cycles of sonication; elem. anal.</p> <p>Humphrey, Simon M.; Mole, Richard A.; Thompson, Richard I.; Wood, Paul T.; Inorganic Chemistry; vol. 49; (2010); p. 3441 - 3448 ; (from Gmelin) View in Reaxys</p>


 Rx-ID: 502136 [View in Reaxys](#) 21/81

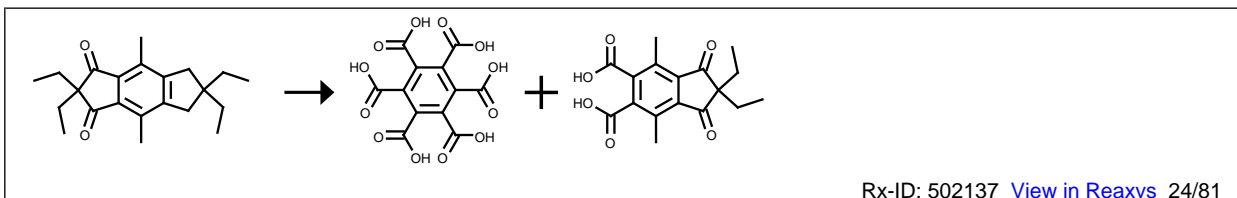
Yield	Conditions & References
	<p>With nitric acid, T= 140 - 150 °C , im Rohr</p> <p>Freund; Fleischer; Justus Liebigs Annalen der Chemie; vol. 414; (1918); p. 30; Justus Liebigs Annalen der Chemie; vol. 373; (1910); p. 308,310 View in Reaxys</p>


 Rx-ID: 31251765 [View in Reaxys](#) 22/81

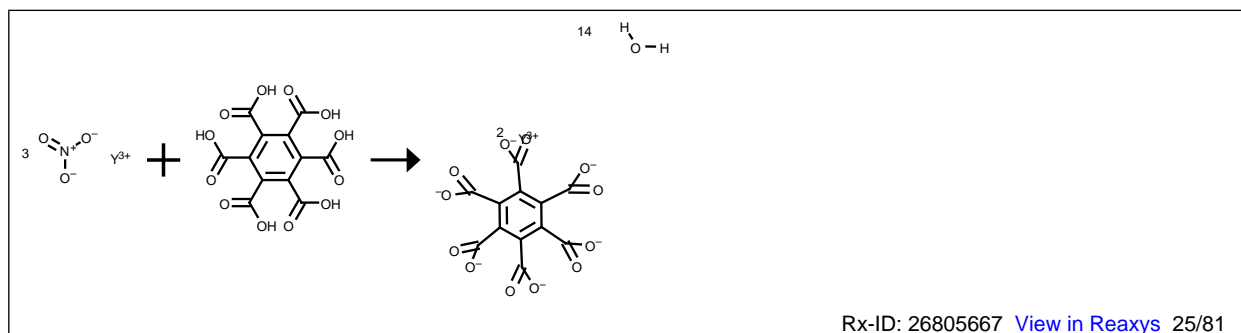
Yield	Conditions & References
	<p>Reaction Steps: 2 1: not given 2: H₂SO₄ With H₂SO₄ in not given</p> <p>vol. Cu: MVol.B2; 58, page 748 - 750 View in Reaxys</p>


 Rx-ID: 422347 [View in Reaxys](#) 23/81

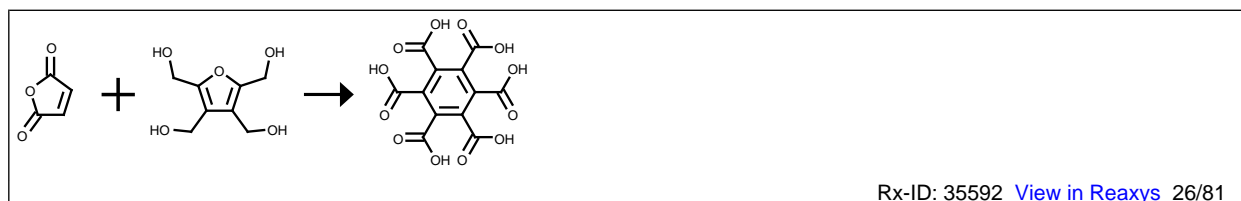
Yield	Conditions & References
	<p>With nitric acid, T= 180 °C , im Rohr</p> <p>Fleischer; Siefert; Justus Liebigs Annalen der Chemie; vol. 422; (1921); p. 309; Chemische Berichte; vol. 53; (1920); p. 1261 View in Reaxys</p>



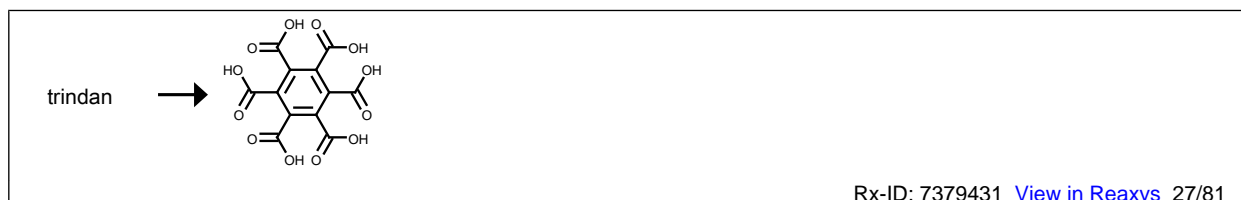
Yield	Conditions & References
	<p>With nitric acid, T= 140 - 150 °C , im Einschussrohr</p> <p>Freund; Fleischer; Justus Liebigs Annalen der Chemie; vol. 411; (1916); p. 33 View in Reaxys</p>



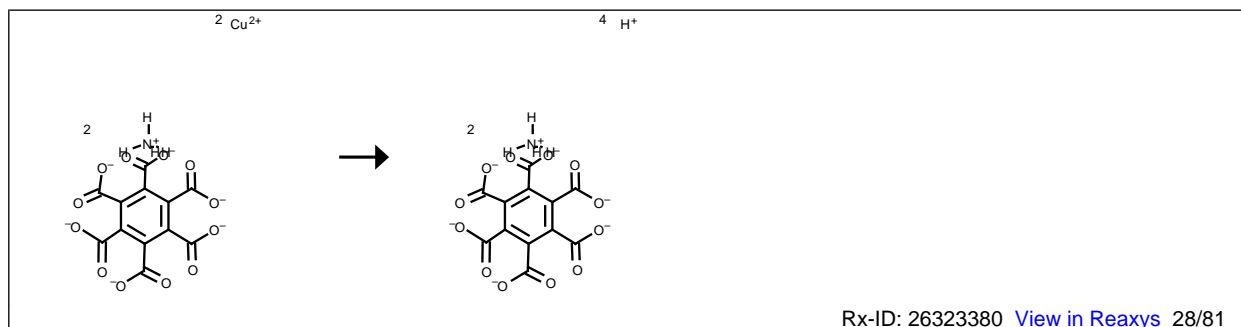
Yield	Conditions & References
	<p>With H₂O in further solvent(s), addn. of Na₂H₂SiO₄ to mixt. of mellitic acid, HNO₃ and water up to pH 6; layering with Y salt soln. after solidification of gel; crystn. within several weeks; elem. anal.</p> <p>Robl, Christian; Hentschel, Stephanie; Zeitschrift fuer Naturforschung, Teil B: Chemical Sciences; vol. 47; (1992); p. 1561 - 1564 ; (from Gmelin) View in Reaxys</p>



Yield	Conditions & References
	<p>With nitric acid</p> <p>Winslow et al.; Journal of Organic Chemistry; vol. 23; (1958); p. 1383 View in Reaxys</p>



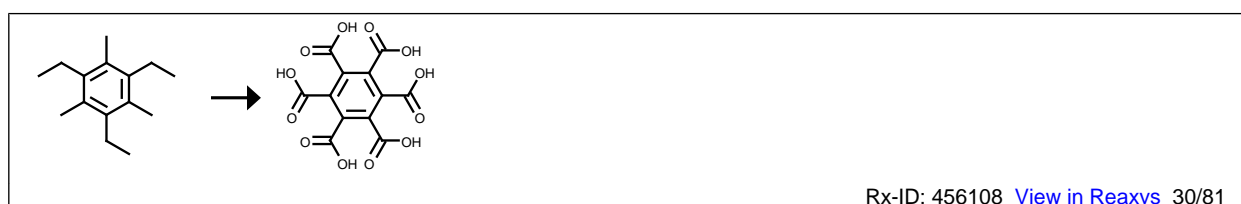
Yield	Conditions & References
	<p>With potassium permanganate, alkaline water</p> <p>Randall; Benger; Grocock; Proceedings of the Royal Society of London, Series A: Mathematical, Physical and Engineering Sciences; vol. 165; (1938); p. 439; Chem. Zentralbl.; vol. 110; nb. I; (1939); p. 911 View in Reaxys</p>


 Rx-ID: 26323380 [View in Reaxys](#) 28/81

Yield	Conditions & References
	With sulfuric acid Baeyer, A. ; Justus Liebigs Annalen der Chemie; vol. 7 ; (1870); p. 1 - 55 ; (from Gmelin) View in Reaxys
	With H₂SO₄ vol. Cu: MVol.B2 ; 58, page 748 - 750 ; (from Gmelin) View in Reaxys


 Rx-ID: 297432 [View in Reaxys](#) 29/81

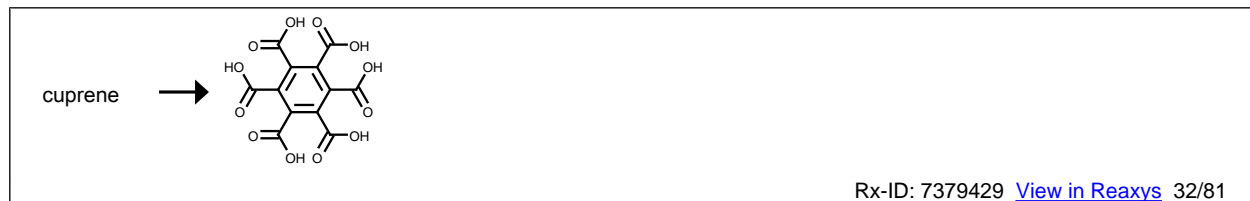
Yield	Conditions & References
	With potassium permanganate Chaigneau ; Annales de Chimie (Cachan, France); vol. <13> 1 ; (1956); p. 381,395; Annales Pharmaceutiques Francaises; vol. 15 ; (1957); p. 224 View in Reaxys
	With nitric acid Chaigneau ; Annales de Chimie (Cachan, France); vol. <13> 1 ; (1956); p. 381,395; Annales Pharmaceutiques Francaises; vol. 15 ; (1957); p. 224 View in Reaxys


 Rx-ID: 456108 [View in Reaxys](#) 30/81

Yield	Conditions & References
	With water, nitric acid Philippi; Rie ; Monatshefte fuer Chemie; vol. 42 ; (1921); p. 7 View in Reaxys


 Rx-ID: 7379426 [View in Reaxys](#) 31/81

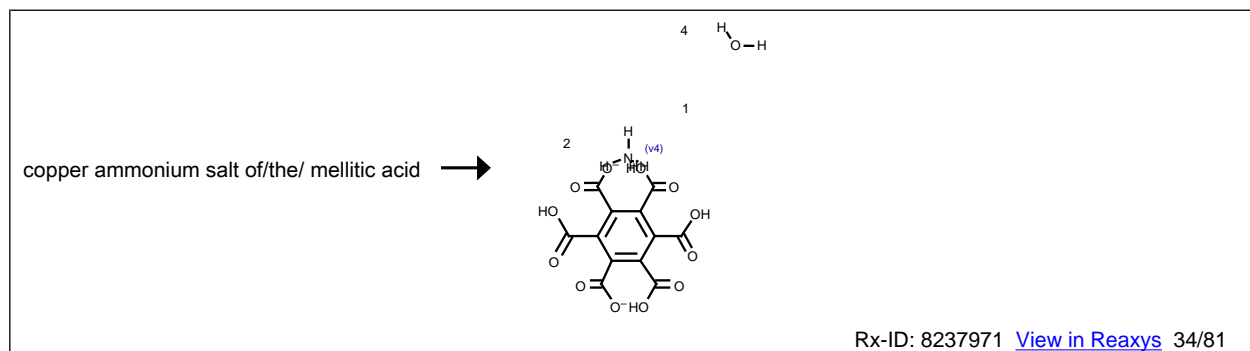
Yield	Conditions & References
	<p>With potassium hydroxide, potassium permanganate, nitric acid, 1.) reflux, 6 h, 2.) 100 deg C, 5 h, Yield given. Multistep reaction</p> <p>Rudakov, E. S.; Rudakova, R. I.; Zubova, T. I.; Savos'kin, M. V.; Doklady Chemistry; vol. 270; (1983); p. 154 - 157; Dokl. Akad. Nauk SSSR Ser. Khim.; vol. 270; nb. 1; (1983); p. 104 - 108</p> <p>View in Reaxys</p>



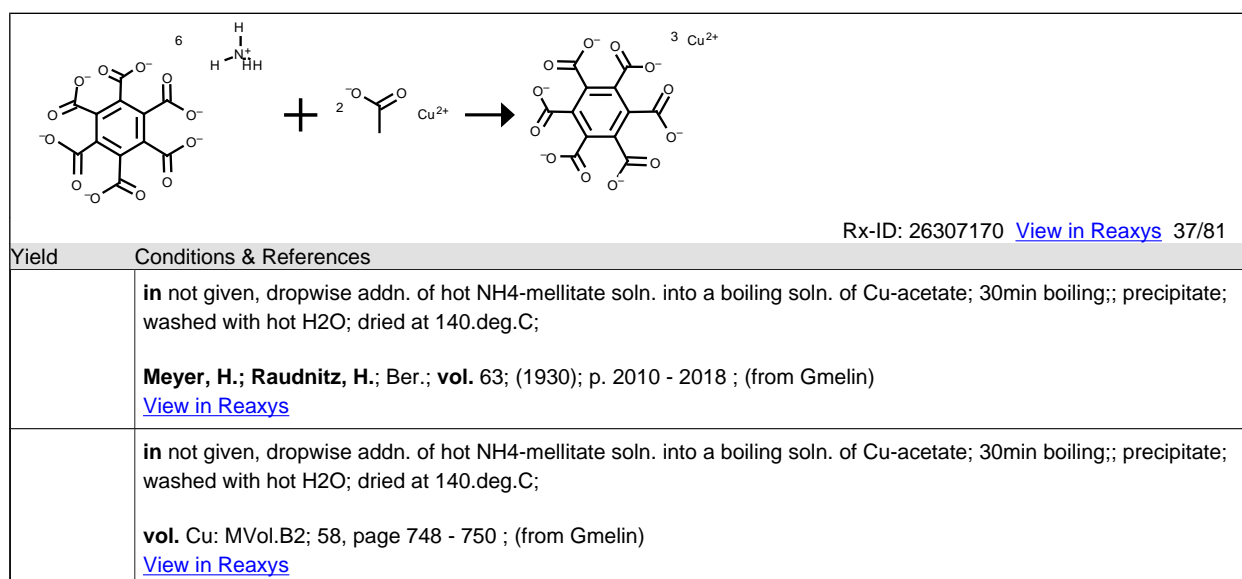
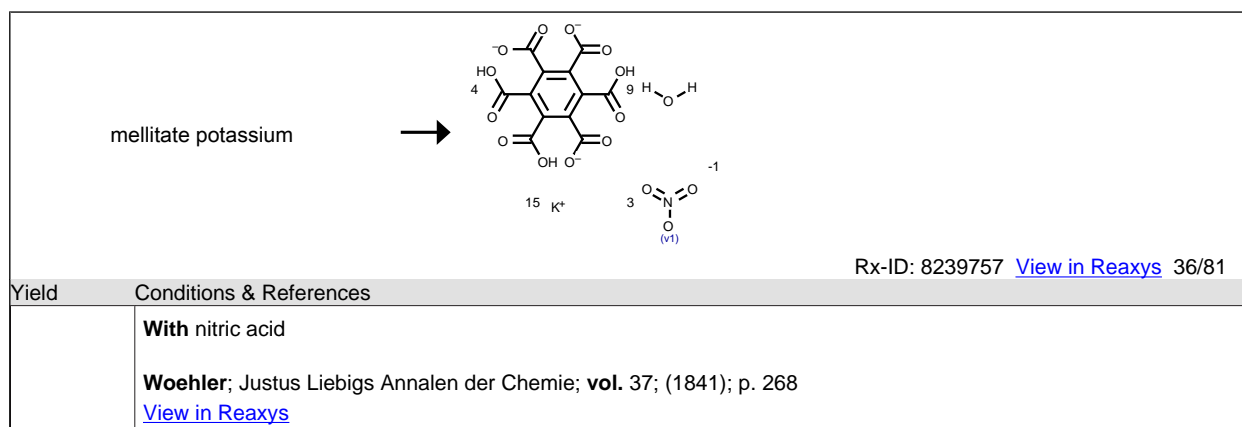
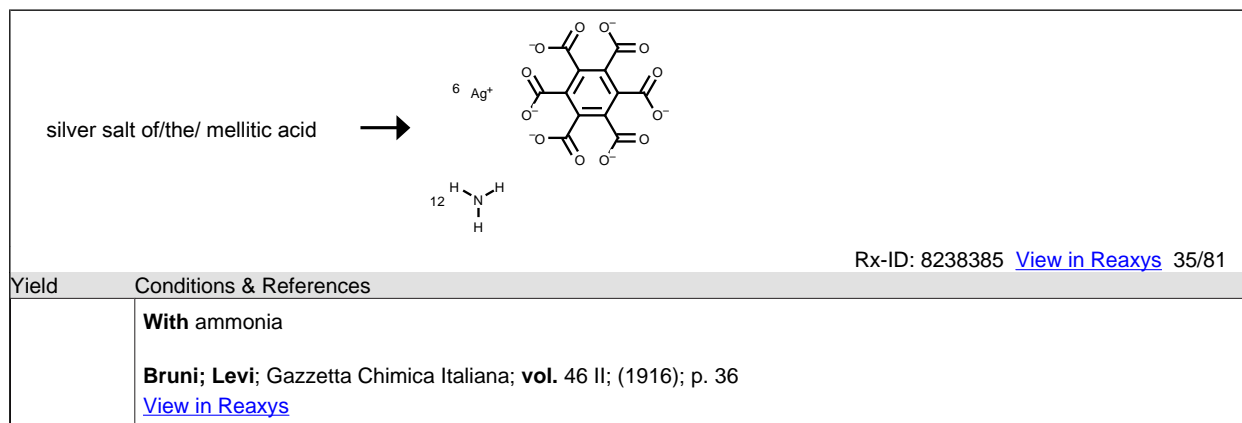
Yield	Conditions & References
	<p>With nitric acid</p> <p>Kaufmann; Schneider; Chemische Berichte; vol. 55; (1922); p. 278,279</p> <p>View in Reaxys</p>

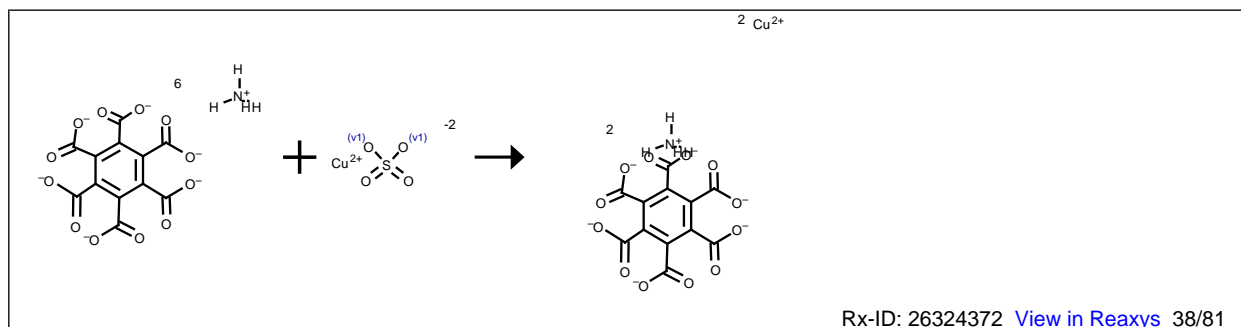


Yield	Conditions & References
	<p>With permanganate(VII) ion</p> <p>Nellensteyn; Chem. Weekb.; vol. 22; p. 567; Chem. Zentralbl.; vol. 97; nb. II; (1926); p. 11</p> <p>View in Reaxys</p>



Yield	Conditions & References
	<p>With hydrogen sulfide, Eindampfen der Fluessigkeit</p> <p>Erdmann; Marchand; Journal fuer Praktische Chemie (Leipzig); vol. <1> 43; (1848); p. 130; Justus Liebigs Annalen der Chemie; vol. 68; (1848); p. 328</p> <p>View in Reaxys</p>





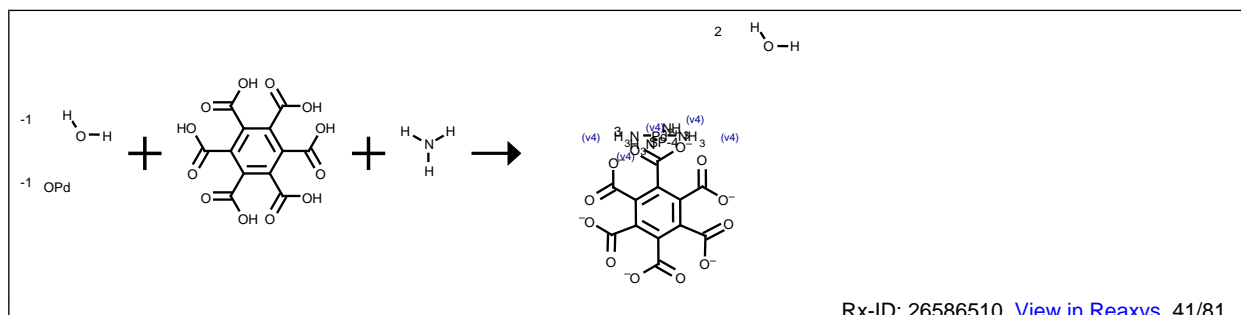
Yield	Conditions & References
	<p>in not given, ppt.;</p> <p>Baeyer, A.; Justus Liebigs Annalen der Chemie; vol. 7; (1870); p. 1 - 55 ; (from Gmelin) View in Reaxys</p>
	<p>in not given, ppt.;</p> <p>vol. Cu: MVol.B2; 58, page 748 - 750 ; (from Gmelin) View in Reaxys</p>



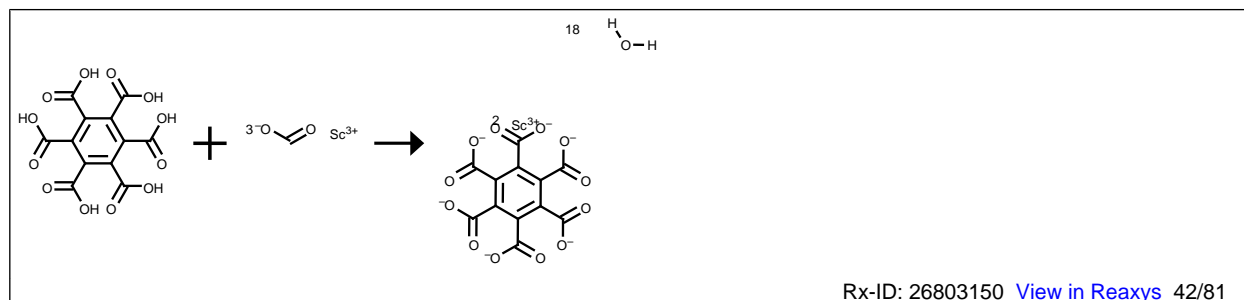
Yield	Conditions & References
	<p>With nitric acid, im geschlossenen Rohr</p> <p>Mannich; Chemische Berichte; vol. 40; (1907); p. 160 View in Reaxys</p>



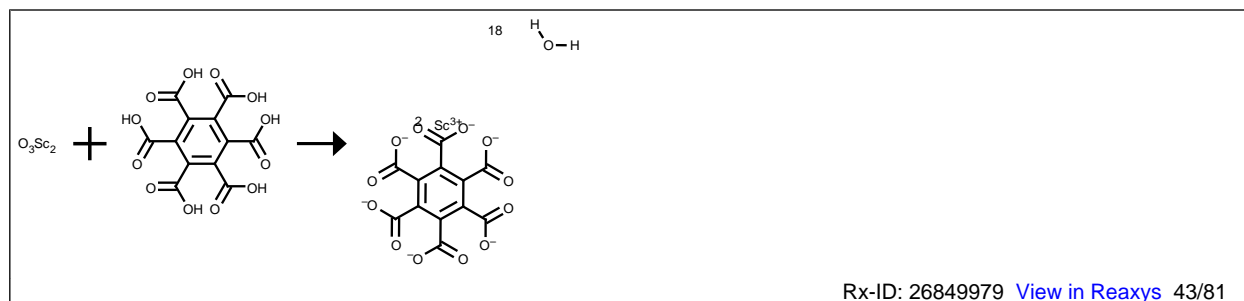
Yield	Conditions & References
	<p>With potassium hydroxide</p> <p>Woehler; Justus Liebigs Annalen der Chemie; vol. 37; (1841); p. 268 View in Reaxys</p>



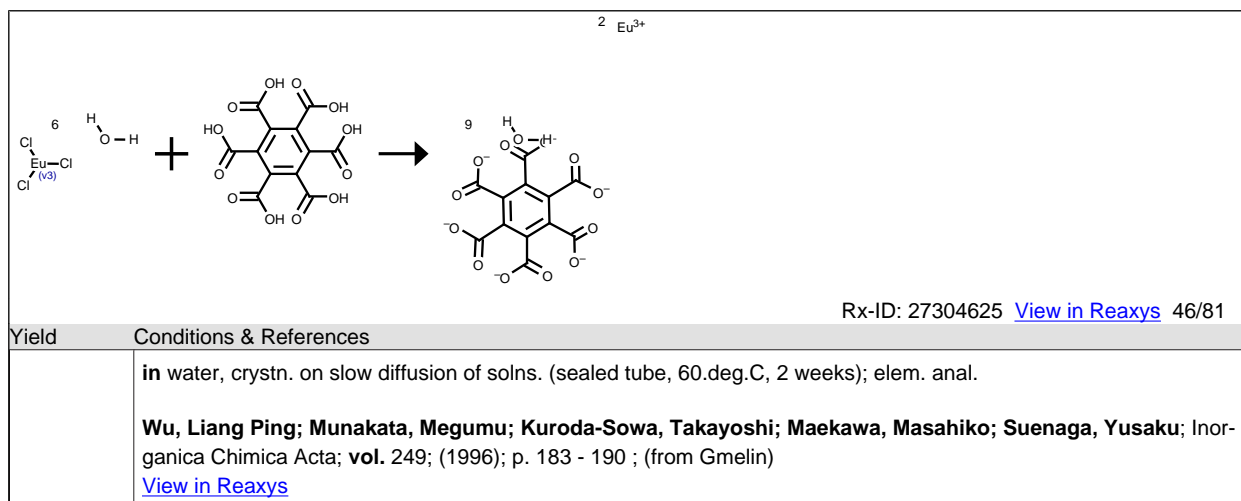
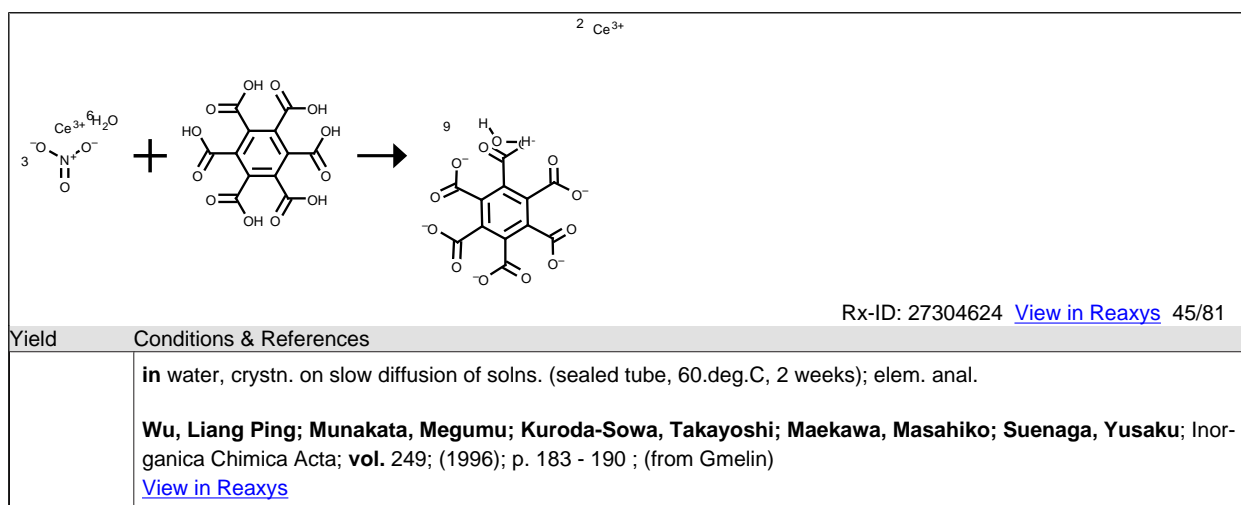
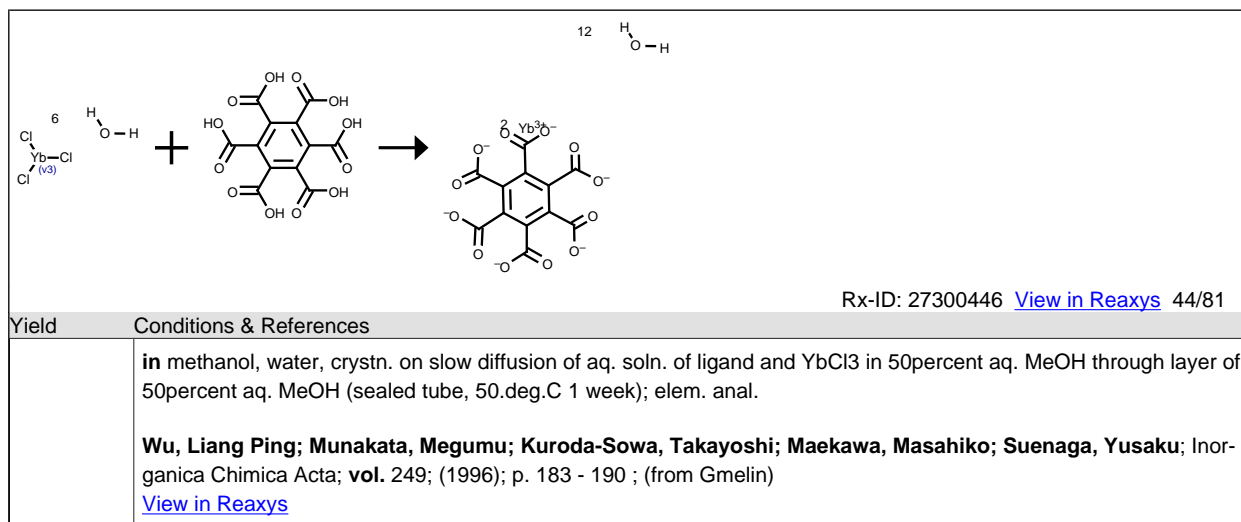
Yield	Conditions & References
	<p>in water, on dissolving of recently pptd. PdO hydrate in equivalent amt. of aq. mellite acid, concg. to dryness, and dissolving of obtained mellite acidic Pd in NH₃ soln.; on evaporation of colorless react. soln.;</p> <p>Karmrodt, C.; Liebigs Annalen der Chemie; vol. 81; (1852); p. 164 - 164 ; (from Gmelin) View in Reaxys</p>
	<p>in water, on dissolving of recently pptd. PdO hydrate in equivalent amt. of aq. mellite acid, concg. to dryness, and dissolving of obtained mellite acidic Pd in NH₃ soln.; on evaporation of colorless react. soln.;</p> <p>vol. Pd: MVol.2; 100, page 352 - 354 ; (from Gmelin) View in Reaxys</p>

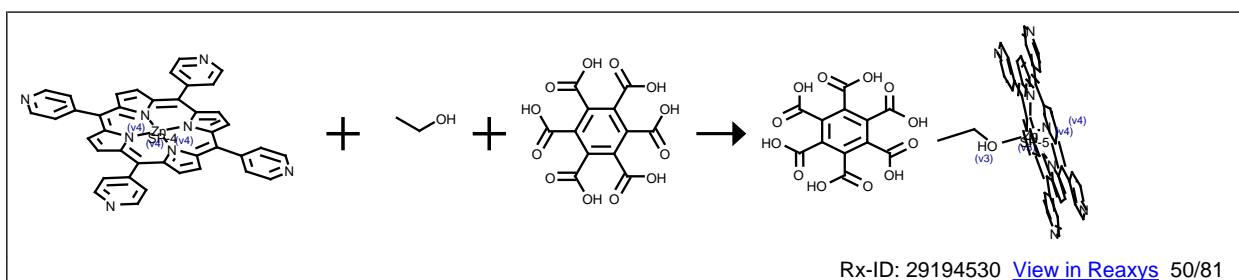
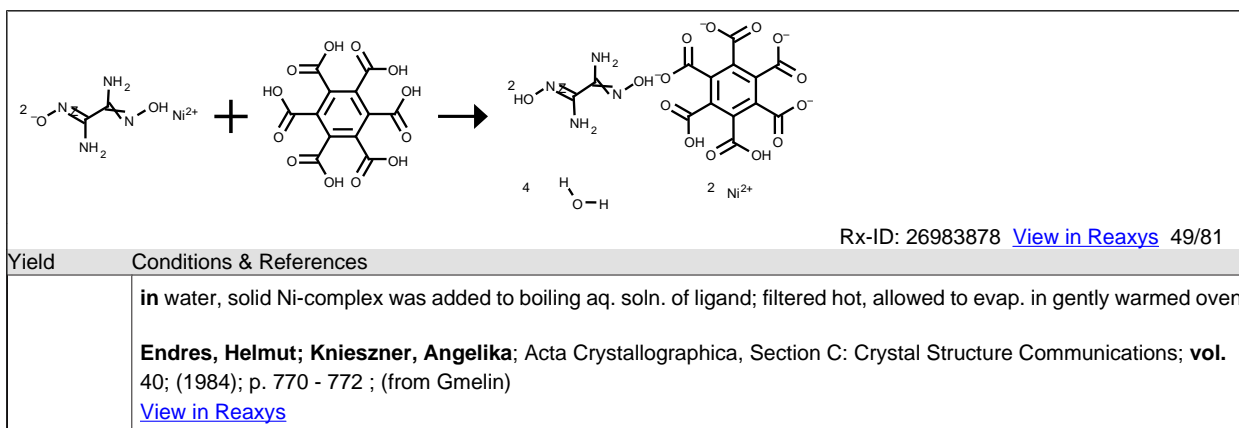
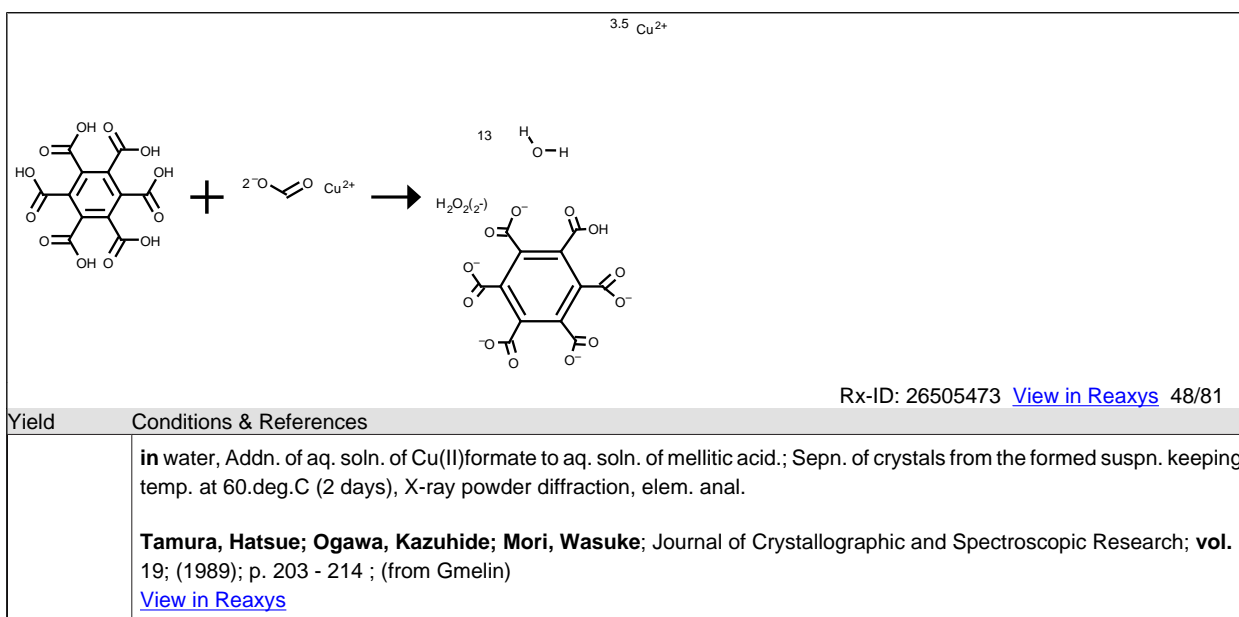
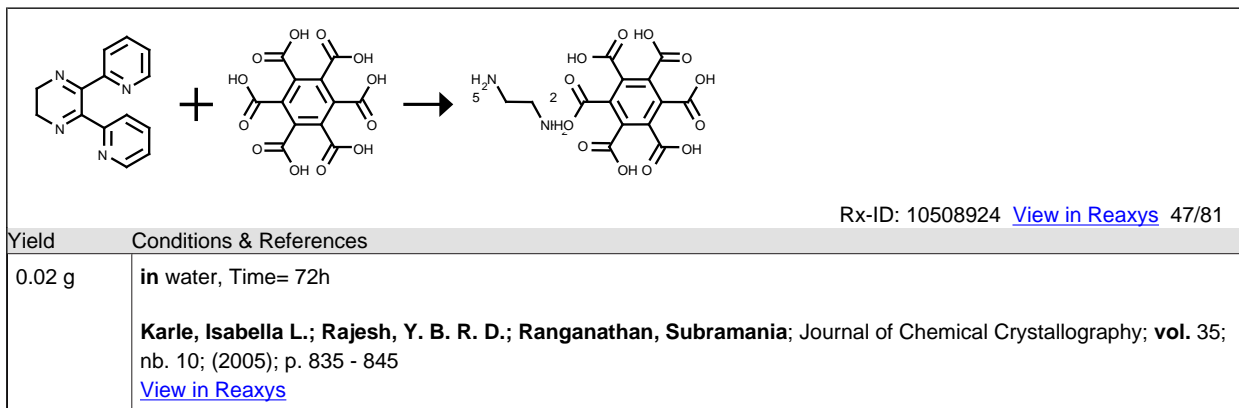


Yield	Conditions & References
	<p>in formic acid, dild. soln., crystn. at room temp. in vac. over KOH; sepd., washed, dried in vac. desiccator at room temp. over KOH</p> <p>Kalalova, E.; Petru, F.; Hajek, B.; Collection of Czechoslovak Chemical Communications; vol. 31; (1966); p. 4480 - 4484 View in Reaxys</p> <p>vol. Sc: MVol.D5; 1.3.7, page 222 - 222 ; (from Gmelin) View in Reaxys</p>

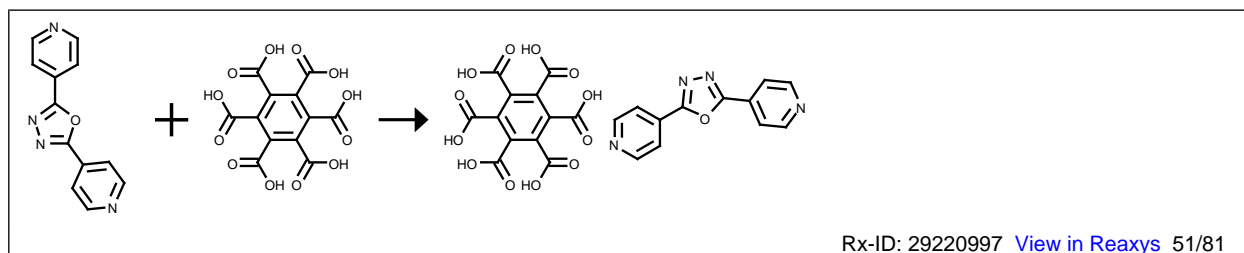


Yield	Conditions & References
	<p>in not given, moist Sc₂O₃, crystn. at room temp. in vac. over KOH; sepd., washed, dried in vac. desiccator at room temp. over KOH</p> <p>Kalalova, E.; Petru, F.; Hajek, B.; Collection of Czechoslovak Chemical Communications; vol. 31; (1966); p. 4480 - 4484 View in Reaxys</p> <p>vol. Sc: MVol.D5; 1.3.7, page 222 - 222 ; (from Gmelin) View in Reaxys</p>

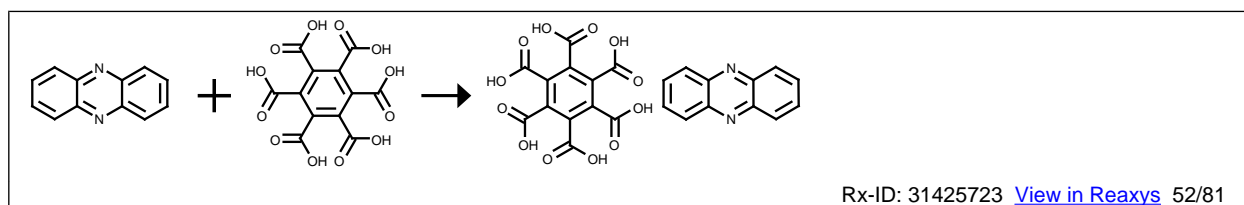




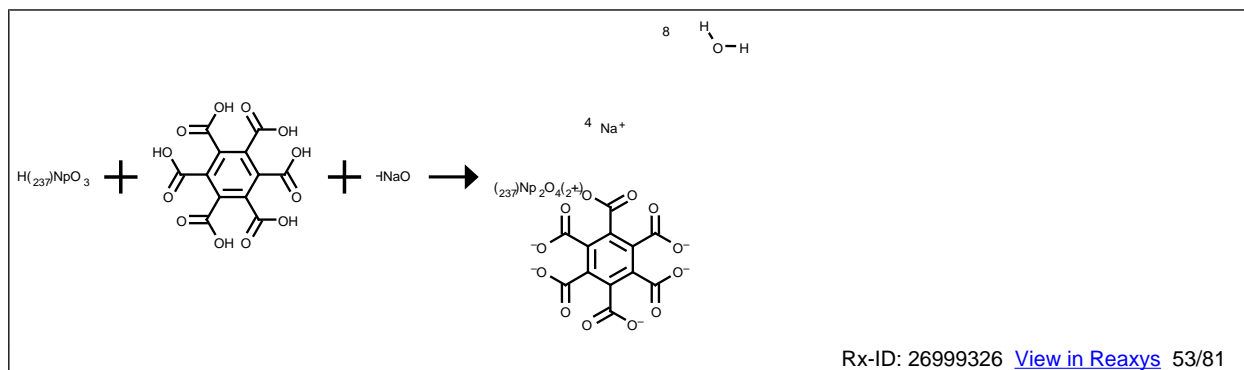
Yield	Conditions & References
	<p>in methanol, 1,2-dichloro-benzene</p> <p>Lipstman, Sophia; Goldberg, Israel; Beilstein Journal of Organic Chemistry; vol. 5; (2009); Art.No: 77</p> <p>View in Reaxys</p>



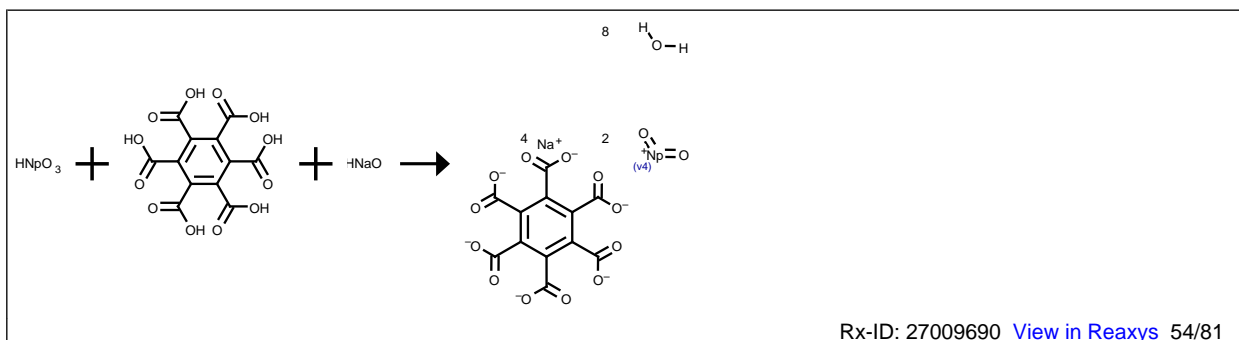
Yield	Conditions & References
0.018 g	<p>in methanol</p> <p>Karle, Isabella L.; Rajesh, Y. B. R. D.; Ranganathan, Subramania; Journal of Chemical Crystallography; vol. 39; nb. 3; (2009); p. 201 - 208</p> <p>View in Reaxys</p>



Yield	Conditions & References
	<p>in methanol</p> <p>Karle, Isabella L.; Butcher, Raymond J.; Rajesh, Y. B. R. D.; Ranganathan, Subramania; Journal of Chemical Crystallography; vol. 39; nb. 5; (2009); p. 309 - 314</p> <p>View in Reaxys</p>



Yield	Conditions & References
	<p>in water, dissolution of hydroxide in aq. soln. of carboxylic acid; addn. of NaOH to soln. (pH = 6.5); slowly evapn. of soln. by heating to 70 - 80.deg.C;; detn. by XRD;</p> <p>Nectoux, Francoise; Abazli, Hicham; Jove, Jose; Cousson, Alain; Pages, Monique; et al.; Journal of the Less-Common Metals; vol. 97; (1984); p. 1 - 10 ; (from Gmelin)</p> <p>View in Reaxys</p>

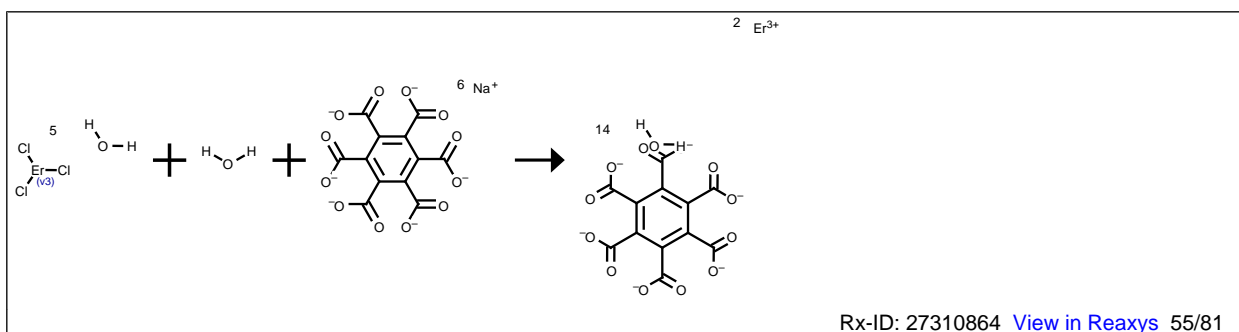


Yield **Conditions & References**

in sodium hydroxide, aq. NaOH; dissolving NpO₂H in an aq. soln. of mellitic acid, adjustment of pH to about 6.5 with NaOH, crystn. on slow evapn.; detn. by X-ray;

Cousson, Alain; Dabos, Sylvie; Abazli, Hicham; Nectoux, Françoise; Pages, Monique; Choppin, Gregory; Journal of the Less-Common Metals; **vol.** 99; (1984); p. 233 - 240 ; (from Gmelin)

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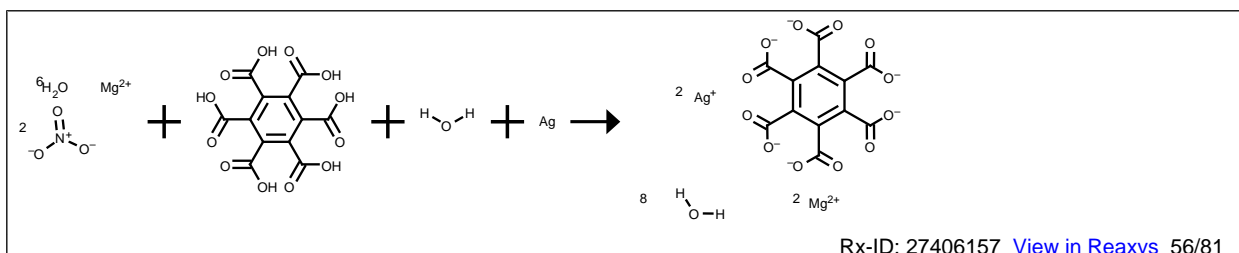


Yield **Conditions & References**

in water, slow diffusion of diluted solns. of ErCl₃·5H₂O and hexasodium mellitate through an agar gel medium in a U-shaped tube (1.5 m); crystn. after 1.5 months; elem. anal.

Deluzet, Andre; Guillou, Olivier; Acta Crystallographica, Section C: Crystal Structure Communications; **vol.** 59; (2003); p. M277 - M279 ; (from Gmelin)

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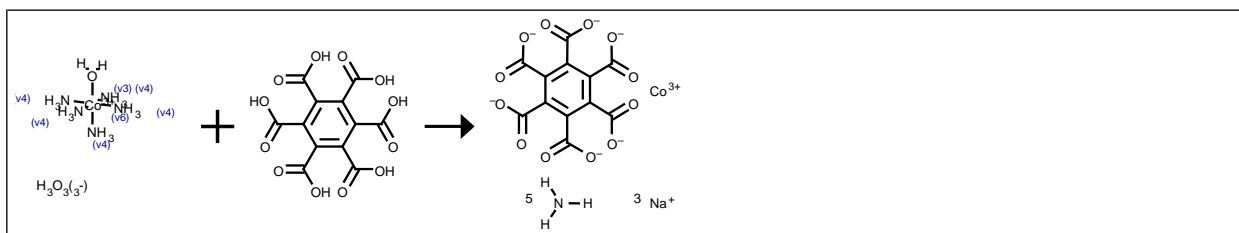


Yield **Conditions & References**

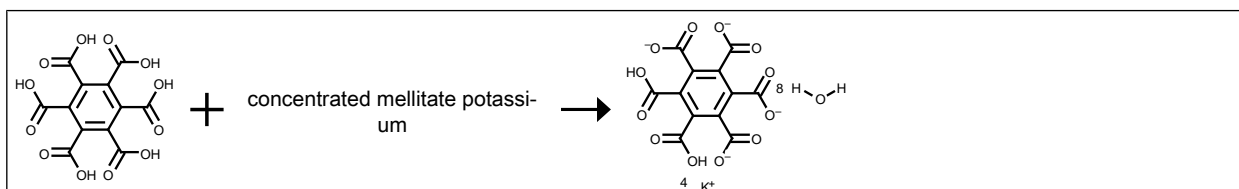
in water, High Pressure; Mg salt and mellitic acid dissolved in distd. water; poured into Ag tube; sealed; heated to 200.deg.C for 3 d in autoclave; cooled to room temp.; filtered; crystals washed with distd. water; dried in air; elem. anal.

Kyono, Atsushi; Kimata, Mitsuyoshi; Hatta, Tamao; Inorganica Chimica Acta; **vol.** 357; (2004); p. 2519 - 2524 ; (from Gmelin)

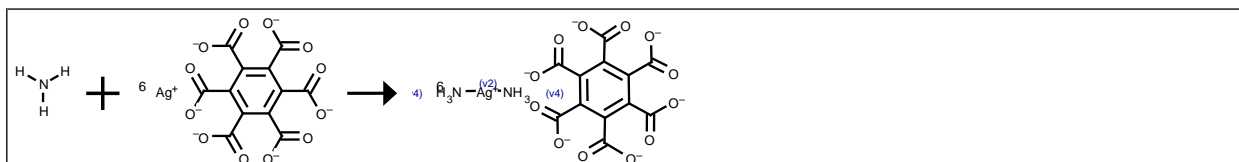
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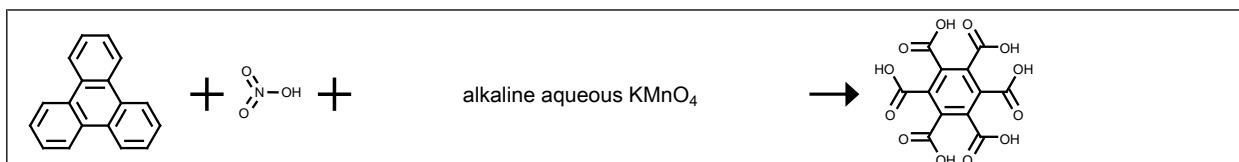
Yield	Conditions & References
	reaction of {Co(NH ₃) ₅ (H ₂ O)}(OH) ₃ with an alkali-salt of benzene hexacarboxate; Duval, C. ; Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences; vol. 189; (1929); p. 537 - 537 ; (from Gmelin) View in Reaxys
	reaction of {Co(NH ₃) ₅ (H ₂ O)}(OH) ₃ with an alkali-salt of benzene hexacarboxate; vol. Co: MVol.B; 86; page 204 - 206 ; (from Gmelin) View in Reaxys



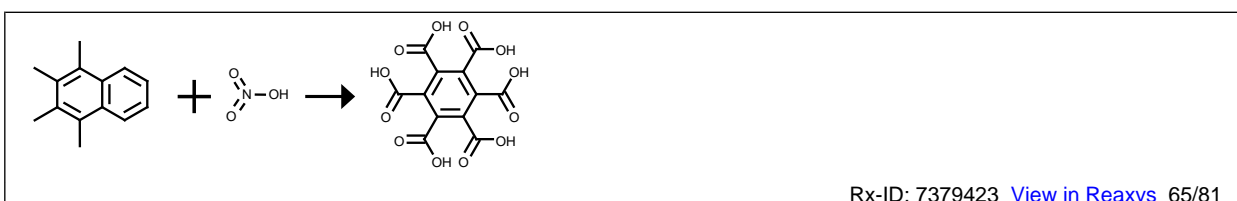
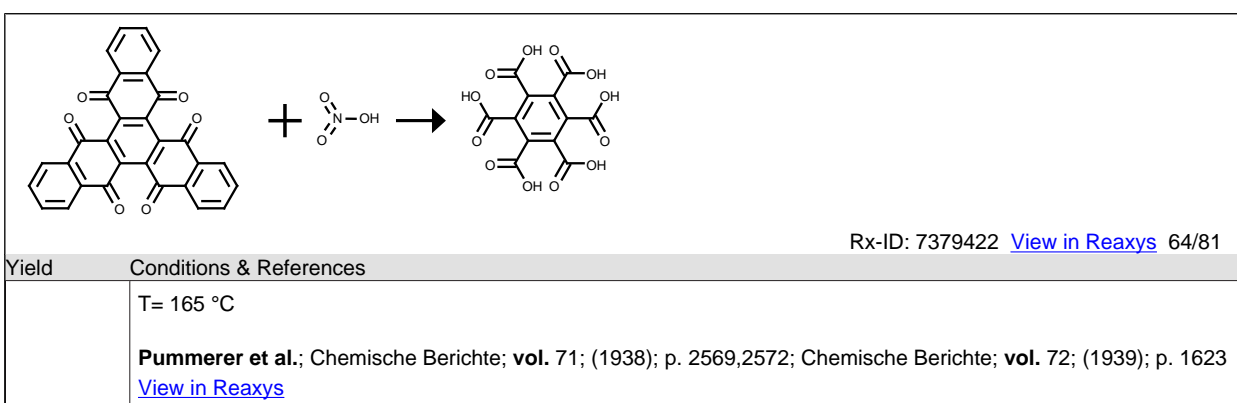
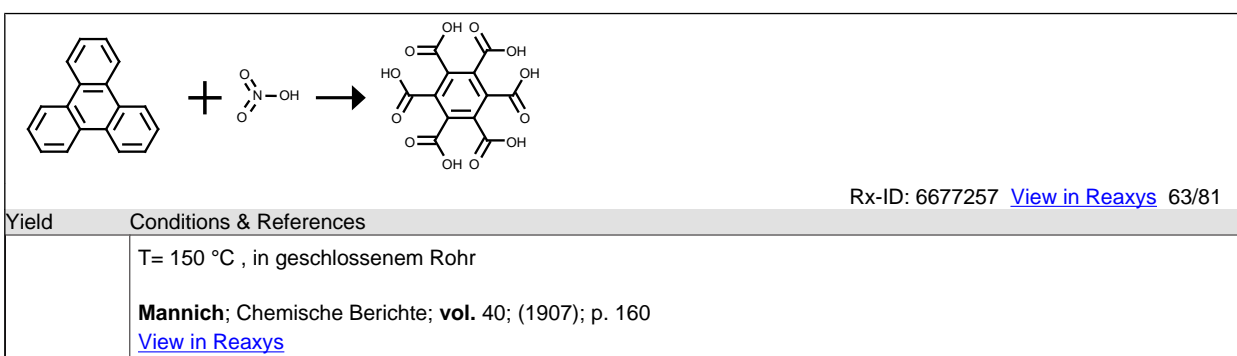
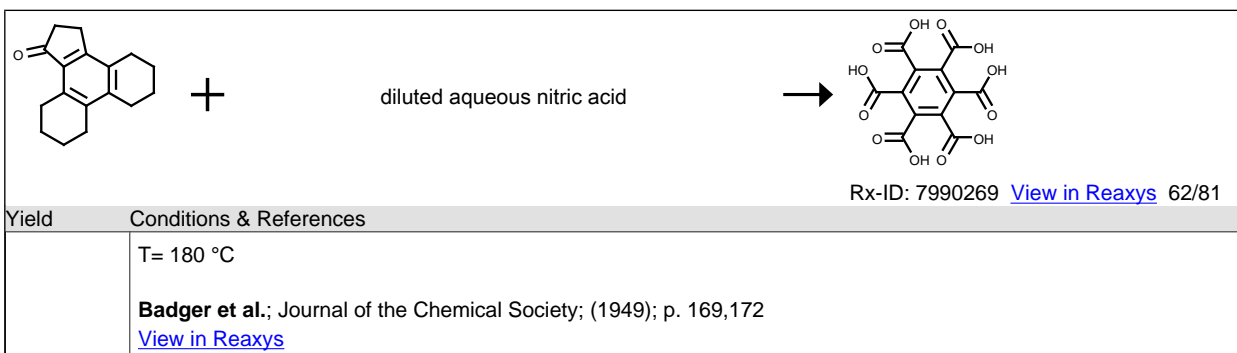
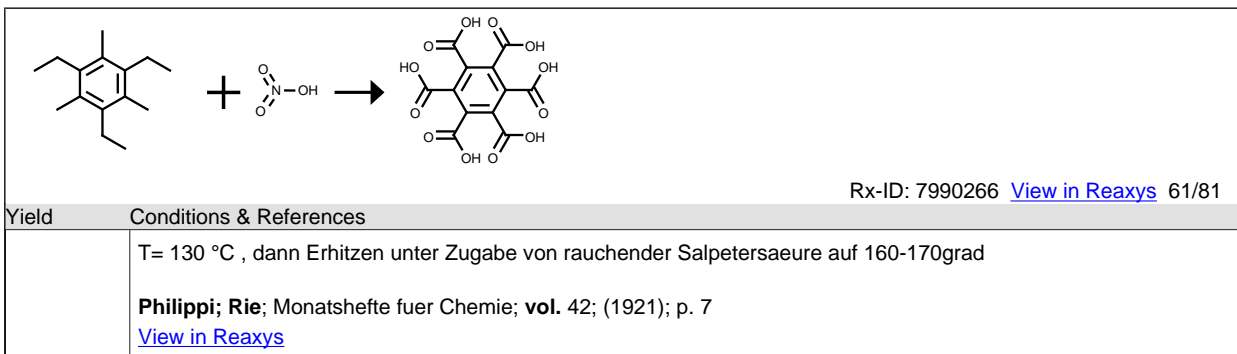
Yield	Conditions & References
	Erdmann; Marchand ; Journal fuer Praktische Chemie (Leipzig); vol. <1> 43; (1848); p. 130; Justus Liebigs Annalen der Chemie; vol. 68; (1848); p. 328 View in Reaxys



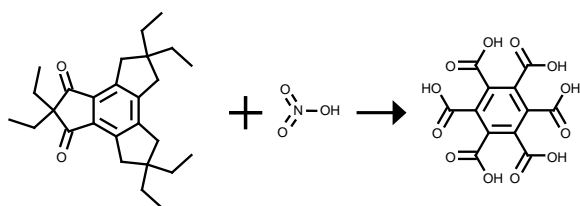
Yield	Conditions & References
	dry NH ₃ gas Bruni, G.; Levi, G. ; Gazzetta Chimica Italiana; vol. 46; nb. II; (1916); p. 17 - 41 View in Reaxys vol. Ag: MVol.B6; 1.2.4.2; page 28 - 35 ; (from Gmelin) View in Reaxys



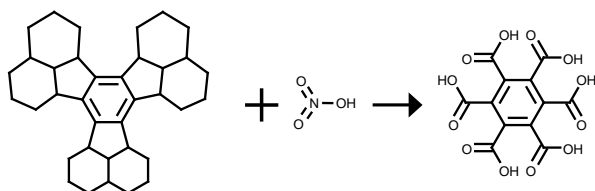
Yield	Conditions & References
	Patent; Carnegie Inst. Technol. ; US2176348; (1937) View in Reaxys Juettner ; Journal of the American Chemical Society; vol. 59; (1937); p. 1472,1474 View in Reaxys



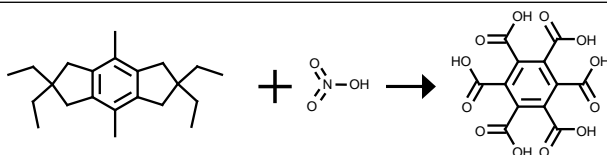
Yield	Conditions & References
	T= 180 °C Hewett ; Journal of the Chemical Society; (1940); p. 293,298 View in Reaxys


 Rx-ID: 7990264 [View in Reaxys](#) 66/81

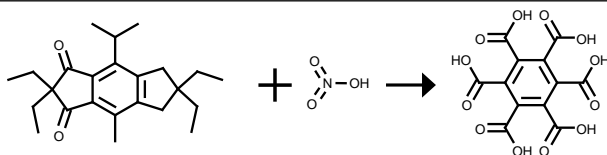
Yield	Conditions & References
	T= 140 - 150 °C Freund; Fleischer ; Justus Liebigs Annalen der Chemie; vol. 414; (1918); p. 30; Justus Liebigs Annalen der Chemie; vol. 373; (1910); p. 308,310 View in Reaxys


 Rx-ID: 7990265 [View in Reaxys](#) 67/81

Yield	Conditions & References
	T= 160 °C v. Braun ; Chemische Berichte; vol. 67; (1934); p. 218,224 View in Reaxys


 Rx-ID: 7990267 [View in Reaxys](#) 68/81

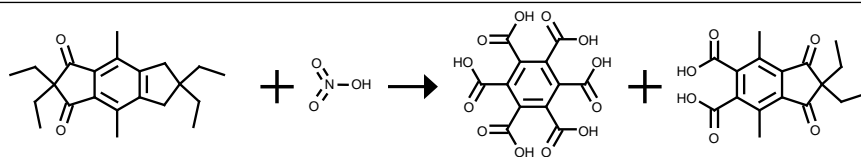
Yield	Conditions & References
	T= 140 - 150 °C , im Rohr Freund; Fleischer ; Justus Liebigs Annalen der Chemie; vol. 414; (1918); p. 30; Justus Liebigs Annalen der Chemie; vol. 373; (1910); p. 308,310 View in Reaxys


 Rx-ID: 7990268 [View in Reaxys](#) 69/81

Yield	Conditions & References
	T= 170 °C , im Rohr

Fleischer; Justus Liebigs Annalen der Chemie; **vol. 422**; (1921); p. 242

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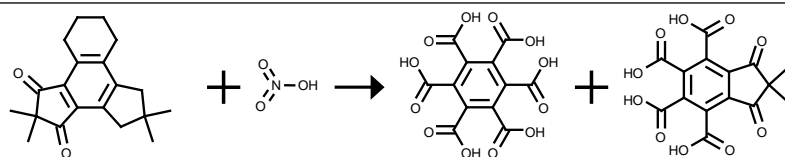
Rx-ID: 8186749 [View in Reaxys](#) 70/81

Yield Conditions & References

T= 140 - 150 °C , im Rohr

Freund; **Fleischer**; Justus Liebigs Annalen der Chemie; **vol. 414**; (1918); p. 30; Justus Liebigs Annalen der Chemie; **vol. 373**; (1910); p. 308,310

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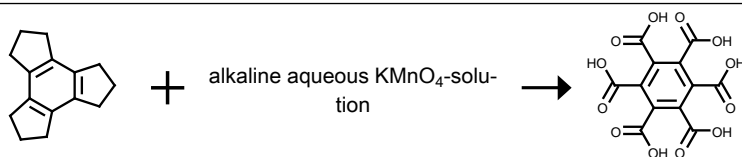
Rx-ID: 8197054 [View in Reaxys](#) 71/81

Yield Conditions & References

T= 180 °C , im Rohr

Fleischer; **Siefert**; Justus Liebigs Annalen der Chemie; **vol. 422**; (1921); p. 309; Chemische Berichte; **vol. 53**; (1920); p. 1261

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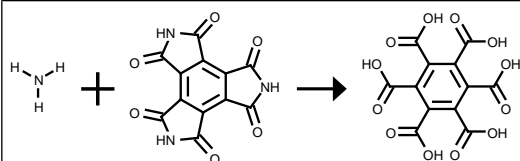


Rx-ID: 5811396 [View in Reaxys](#) 72/81

Yield Conditions & References

Randall; **Benger**; **Grocock**; Proceedings of the Royal Society of London, Series A: Mathematical, Physical and Engineering Sciences; **vol. 165**; (1938); p. 439; Chem. Zentralbl.; **vol. 110**; nb. I; (1939); p. 911

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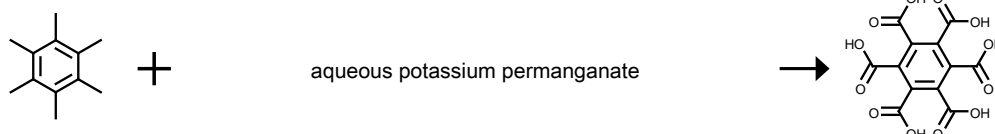


Rx-ID: 5498619 [View in Reaxys](#) 73/81

Yield Conditions & References

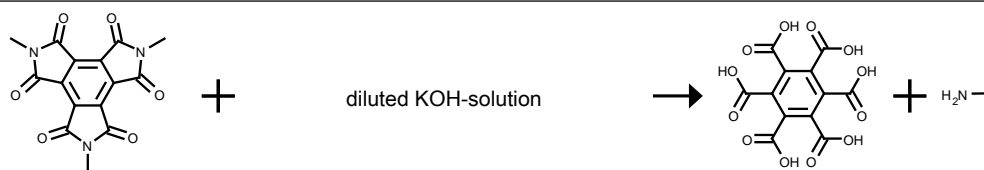
Meyer; **Steiner**; Monatshefte fuer Chemie; **vol. 35**; (1914); p. 499

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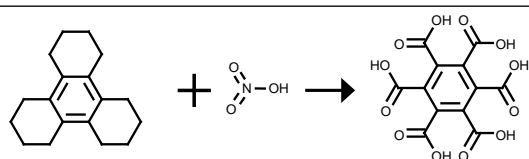
Rx-ID: 7379427 [View in Reaxys](#) 74/81

Yield	Conditions & References
	Friedel; Crafts ; Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences; vol. 91; (1880); p. 258; Annales de Chimie (Cachan, France); vol. <6> 1; (1884); p. 461,472 View in Reaxys



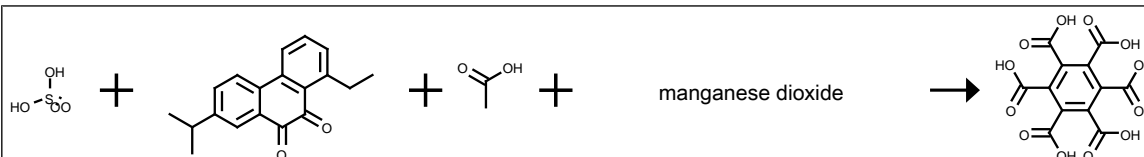
Rx-ID: 5698440 [View in Reaxys](#) 75/81

Yield	Conditions & References
	Meyer,H.; Steiner ; Chemische Berichte; vol. 45; (1912); p. 3676; Monatshefte fuer Chemie; vol. 35; (1914); p. 161,506 View in Reaxys



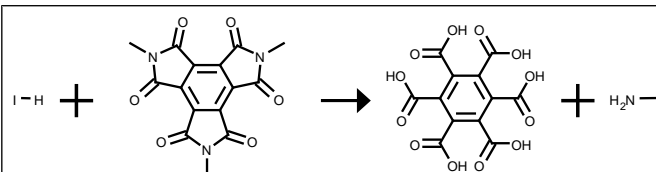
Rx-ID: 7379424 [View in Reaxys](#) 76/81

Yield	Conditions & References
	Mannich ; Chemische Berichte; vol. 40; (1907); p. 160 View in Reaxys



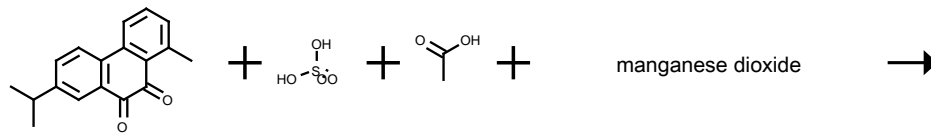
Rx-ID: 7990270 [View in Reaxys](#) 77/81

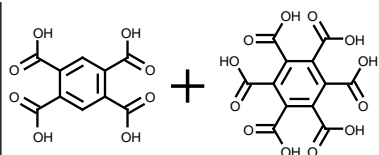
Yield	Conditions & References
	Ruzicka; Schinz; Meyer ; Helvetica Chimica Acta; vol. 6; (1923); p. 1088 View in Reaxys



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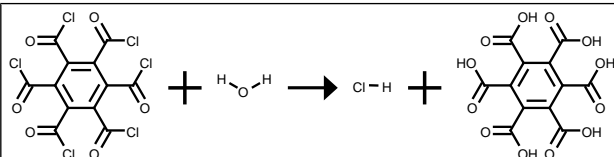
Yield	Conditions & References
	Meyer,H.; Steiner ; Chemische Berichte; vol. 45; (1912); p. 3676; Monatshefte fuer Chemie; vol. 35; (1914); p. 161,506 View in Reaxys




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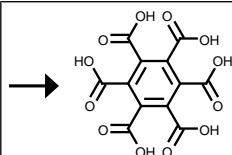
Yield Conditions & References

Ruzicka; Schinz; Meyer; Helvetica Chimica Acta; **vol.** 6; (1923); p. 1088
[View in Reaxys](#)


 Rx-ID: 7990271 [View in Reaxys](#) 80/81

Yield Conditions & References

Baeyer; Justus Liebigs Annalen der Chemie; **vol.** Suppl.7; (1870); p. 20; Justus Liebigs Annalen der Chemie; **vol.** 166; (1873); p. 325
[View in Reaxys](#)


 Rx-ID: 7379421 [View in Reaxys](#) 81/81

Yield Conditions & References

Barnes; Nature (London, United Kingdom); **vol.** 205; (1965); p. 815
[View in Reaxys](#)
Yukhno; Bikkulov; Zhurnal Organicheskoi Khimii; **vol.** 7; (1971); p. 545,551,554,555
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Bartkovskaya et al.; J. Appl. Chem. USSR (Engl. Transl.); **vol.** 47; (1974); p. 421,414
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Kukhareenko; J. Appl. Chem. USSR (Engl. Transl.); **vol.** 45; (1972); p. 172,159
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Kuyama; Journal of Organic Chemistry; **vol.** 27; (1962); p. 939,940
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Tschudakow; Krasnowa; J. Appl. Chem. USSR (Engl. Transl.); **vol.** 34; (1961); p. 2754,2601; Chem.Abstr.; **vol.** 56; nb. 11857; (1962)
[View in Reaxys](#)
Ferris; Journal of Chemical and Engineering Data; **vol.** 9; (1964); p. 387
[View in Reaxys](#)