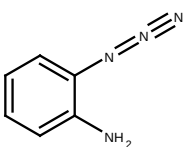
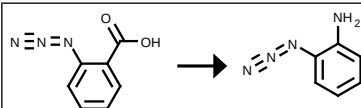
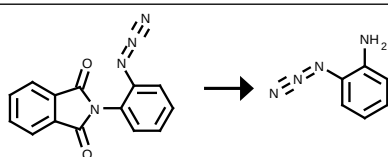


Query

	Query	Results	Date
1. Query	 Search as: Product, As drawn, No salts, No mixtures	11 reactions	2011-11-23 00h:17m:23s (EST)


Rx-ID: 14341210 [View in Reaxys](#)

Yield	Conditions & References
19 %	Example Name 28.28.2 28.2; 2-Azido-benzoic acid (3.7 g, 22.7 mmol) in dimethylformamide (75 mL) was cooled to -10°C and treated with ethylchloroformate (2.6 g, 24 mmol). After stirring for 1 h at -10°C, NaN₃ (7.28g, 112 mmol) dissolved in H₂O (50 mL) was added and the mixture allowed to reach ambient temperature. H₂O (300 ml) was added and the mixture extracted 3 times with ethylacetate. The ethylacetate phases were dried with Na₂SC[^] and stirred for 96 hrs at ambient temperature. The precipitate that had formed was filtered and chromatographed on SiO₂ with ethylacetate/hexane as eluent to give 304 mg (19percent) of 2-azido-phenylamine. MS (ES⁺): 135 (M+H). Stage 1: With chloroformic acid ethyl ester in N,N-dimethyl-formamide, Time= 1h, T= -10 °C Stage 2: With sodium azide in water, N,N-dimethyl-formamide, T= 20 °C Patent: F. HOFFMANN-LA ROCHE AG; WO2008/643; (2008); (A1) English View in Reaxys
	Reaction Steps: 3 1: NEt₃ / CH₂Cl₂ / 1 h / 0 °C 2: 113 g / NH₃ / CH₂Cl₂ / -35 °C 3: 52 percent / aq. NaOCl / 20 °C With sodium hypochlorite, ammonia, triethylamine in dichloromethane, 3: Hofmann rearrangement Hahn, F. Ekkehardt; Langenhahn, Volker; Meier, Nicole; Luegger, Thomas; Fehlhammer, Wolf Peter; Chemistry--A European Journal; vol. 9; nb. 3; (2003); p. 704 - 712 View in Reaxys
	Reaction Steps: 3 1: Et₃N / CH₂Cl₂ / 2 h / 0 °C 2: NH₃(gas) / CH₂Cl₂ / 10 h 3: NaOBr / H₂O / 1.) 6 h, room temperature; 2.) 30 min, 60 deg C With sodium hypobromide, ammonia, triethylamine in dichloromethane, water El-Shihi, Taha; Herrmann, Rudolf; Zeitschrift fuer Naturforschung, Teil B: Anorganische Chemie, Organische Chemie; vol. 41; nb. 1; (1986); p. 132 - 133 View in Reaxys

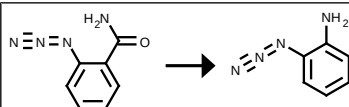

Rx-ID: 23238350 [View in Reaxys](#)

Yield	Conditions & References
62 %	With hydrazine hydrate in methanol, Time= 1.33333h, Inert atmosphere Shen, Meihua; Driver, Tom G.; Organic Letters; vol. 10; nb. 15; (2008); p. 3367 - 3370 View in Reaxys
25 %	Example Name 3.D D. To a suspension of the of 2-(2-azido-phenyl)-isoindole-1,3-dione (373 mg, 1.4 mmol) in ethanol (10 mL) was added hydrazine (140 µL, 4.24 mmol) followed by stirring for 15 minutes. The reaction mixture was poured into water and was extracted with ethyl acetate (3.x.25 mL). The combined extracts were washed with water and brine and were dried over magnesium sulfate. Filtration and concentration in vacuo gave a residue which was purified via radial chromatography (1 mm plate, 10percent 5ethyl acetate/hexanes to 33percent ethyl acetate/hexanes gradient elution) to give 48 mg (25percent) of 2-azidophenylamine as a solid: ¹H NMR (300 MHz, DMSO-d₆) δ 6.98 (m, 1H), 6.86 (m, 1H), 6.66-6.55 (m, 2H).

With hydrazine in ethanol, Time= 0.25h

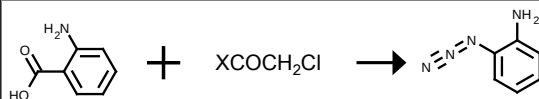
Patent; Darwin Molecular Corporation; US6777432; (2004); (B1) English

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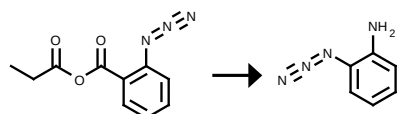
Rx-ID: 1991572 [View in Reaxys](#)

Yield	Conditions & References
52 %	With sodium hypochlorite, T= 20 °C , Hofmann rearrangement Hahn, F. Ekkehardt; Langenhahn, Volker; Meier, Nicole; Luegger, Thomas; Fehlhammer, Wolf Peter; Chemistry--A European Journal; vol. 9; nb. 3; (2003); p. 704 - 712 View in Reaxys
	With sodium hypobromide in water, 1.) 6 h, room temperature; 2.) 30 min, 60 deg C, Yield given El-Shihi, Taha; Herrmann, Rudolf; Zeitschrift fuer Naturforschung, Teil B: Anorganische Chemie, Organische Chemie; vol. 41; nb. 1; (1986); p. 132 - 133 View in Reaxys



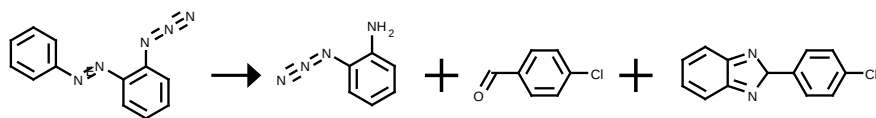
Rx-ID: 14348335 [View in Reaxys](#)

Yield	Conditions & References
	Reaction Steps: 4 1.1: NaNO₂; aq. HCl / 0.5 h / -5 °C 1.2: 98 percent / aq. NaN₃ 2.1: NEt₃ / CH₂Cl₂ / 1 h / 0 °C 3.1: 113 g / NH₃ / CH₂Cl₂ / -35 °C 4.1: 52 percent / aq. NaOCl / 20 °C With hydrogenchloride, sodium hypochlorite, ammonia, triethylamine, sodium nitrite in dichloromethane, 4.1: Hofmann rearrangement Hahn, F. Ekkehardt; Langenhahn, Volker; Meier, Nicole; Luegger, Thomas; Fehlhammer, Wolf Peter; Chemistry--A European Journal; vol. 9; nb. 3; (2003); p. 704 - 712 View in Reaxys

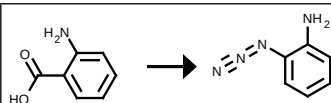


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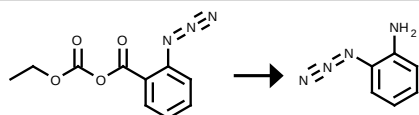
Yield	Conditions & References
	Reaction Steps: 2 1: 113 g / NH₃ / CH₂Cl₂ / -35 °C 2: 52 percent / aq. NaOCl / 20 °C With sodium hypochlorite, ammonia in dichloromethane, 2: Hofmann rearrangement Hahn, F. Ekkehardt; Langenhahn, Volker; Meier, Nicole; Luegger, Thomas; Fehlhammer, Wolf Peter; Chemistry--A European Journal; vol. 9; nb. 3; (2003); p. 704 - 712 View in Reaxys


Rx-ID: 2956207 [View in Reaxys](#)

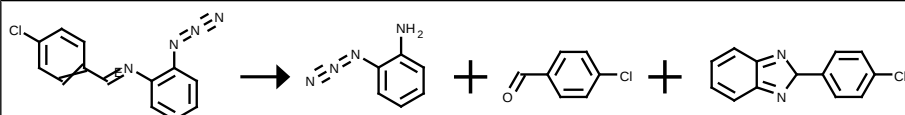
Yield	Conditions & References
44 %	With boron trifluoride in benzene, Ambient temperature Spagnolo, Piero; Zanirato, Paolo; Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999); (1988); p. 2615 - 2620 View in Reaxys
	With boron trifluoride in benzene, Ambient temperature Spagnolo, Piero; Zanirato, Paolo; Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999); (1988); p. 2615 - 2620 View in Reaxys


Rx-ID: 18876474 [View in Reaxys](#)

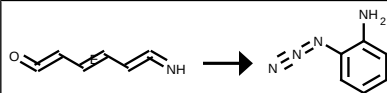
Yield	Conditions & References
	Reaction Steps: 4 1: 1) NaNO₂; 2) NaN₃ / 2) water 2: Et₃N / CH₂Cl₂ / 2 h / 0 °C 3: NH₃(gas) / CH₂Cl₂ / 10 h 4: NaOBr / H₂O / 1.) 6 h, room temperature; 2.) 30 min, 60 deg C With sodium azide, sodium hypobromide, ammonia, triethylamine, sodium nitrite in dichloromethane, water El-Shihi, Taha; Herrmann, Rudolf; Zeitschrift fuer Naturforschung, Teil B: Anorganische Chemie, Organische Chemie; vol. 41; nb. 1; (1986); p. 132 - 133 View in Reaxys


Rx-ID: 18888078 [View in Reaxys](#)

Yield	Conditions & References
	Reaction Steps: 2 1: NH₃(gas) / CH₂Cl₂ / 10 h 2: NaOBr / H₂O / 1.) 6 h, room temperature; 2.) 30 min, 60 deg C With sodium hypobromide, ammonia in dichloromethane, water El-Shihi, Taha; Herrmann, Rudolf; Zeitschrift fuer Naturforschung, Teil B: Anorganische Chemie, Organische Chemie; vol. 41; nb. 1; (1986); p. 132 - 133 View in Reaxys

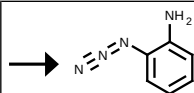

Rx-ID: 2962429 [View in Reaxys](#)

Yield	Conditions & References
	With boron trifluoride in benzene, Ambient temperature Spagnolo, Piero; Zanirato, Paolo; Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999); (1988); p. 2615 - 2620 View in Reaxys



Rx-ID: 4584268 [View in Reaxys](#)

Yield	Conditions & References
	With sodium hydroxide, hydrazine hydrate, 1.) MeOH, 30 min, Yield given. Multistep reaction Tomioka, Hideo; Matsushita, Takeshi; Murata, Shigeru; Koseki, Shiro; Liebigs Annalen; nb. 12; (1996); p. 1971 - 1980 View in Reaxys



Rx-ID: 7022986 [View in Reaxys](#)

Yield	Conditions & References
	N-(o-Azidophenyl)-phthalimid, N2H4*H2O/wss.A. Smith; Hall; Journal of the American Chemical Society; vol. 84; (1962); p. 480,481 View in Reaxys
	N-(2-Azidophenyl)-succinimid, 10percentig.NaOH <Δ> Krbecek; Takimoto; Journal of Organic Chemistry; vol. 29; (1964); p. 3630,3631 View in Reaxys
	3-Oxamidoanilin Patent; Bayer; NL6606456; (1966); Chem.Abstr.; vol. 67; nb. 21620 View in Reaxys