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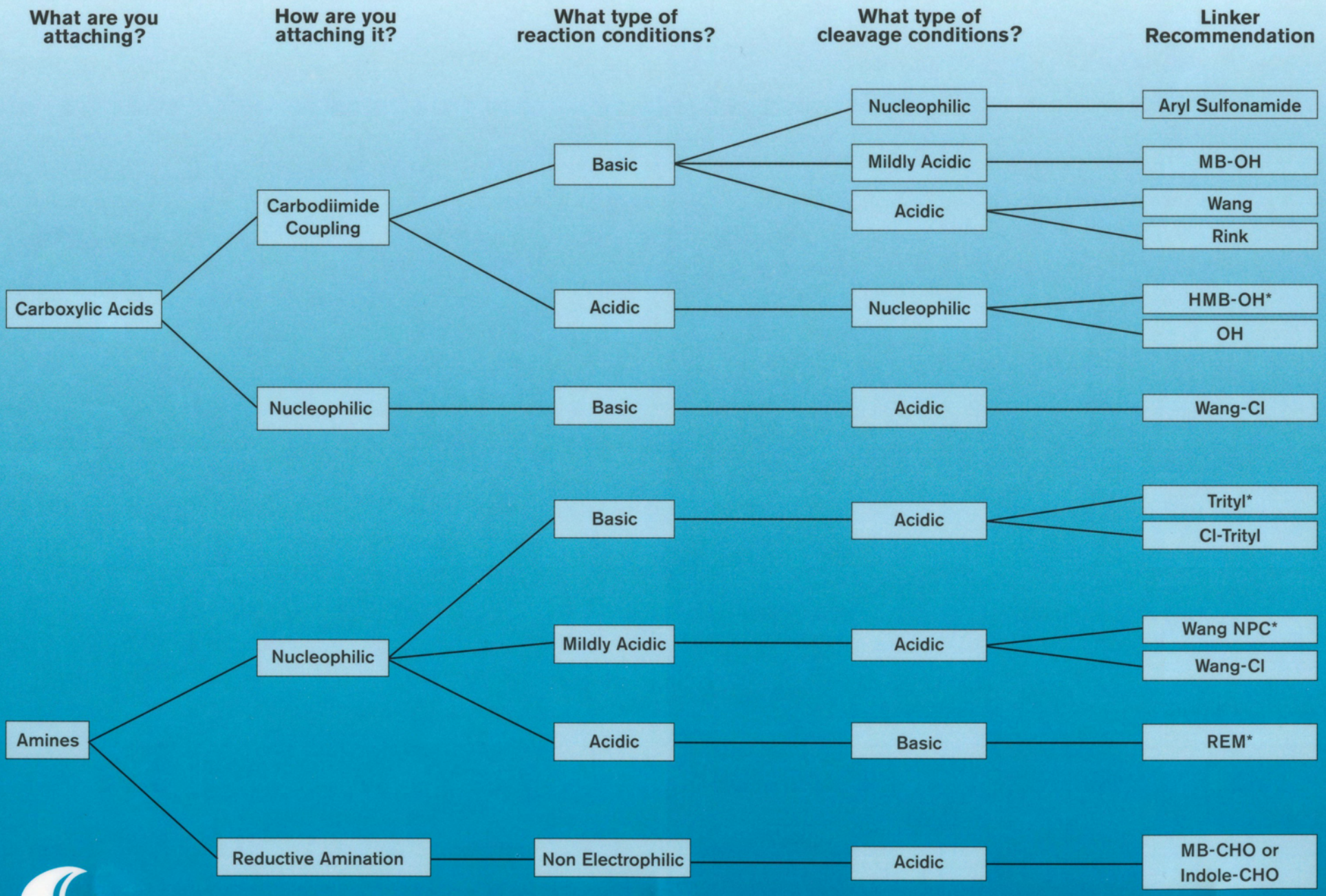
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Solid Phase Linker Selection Guide



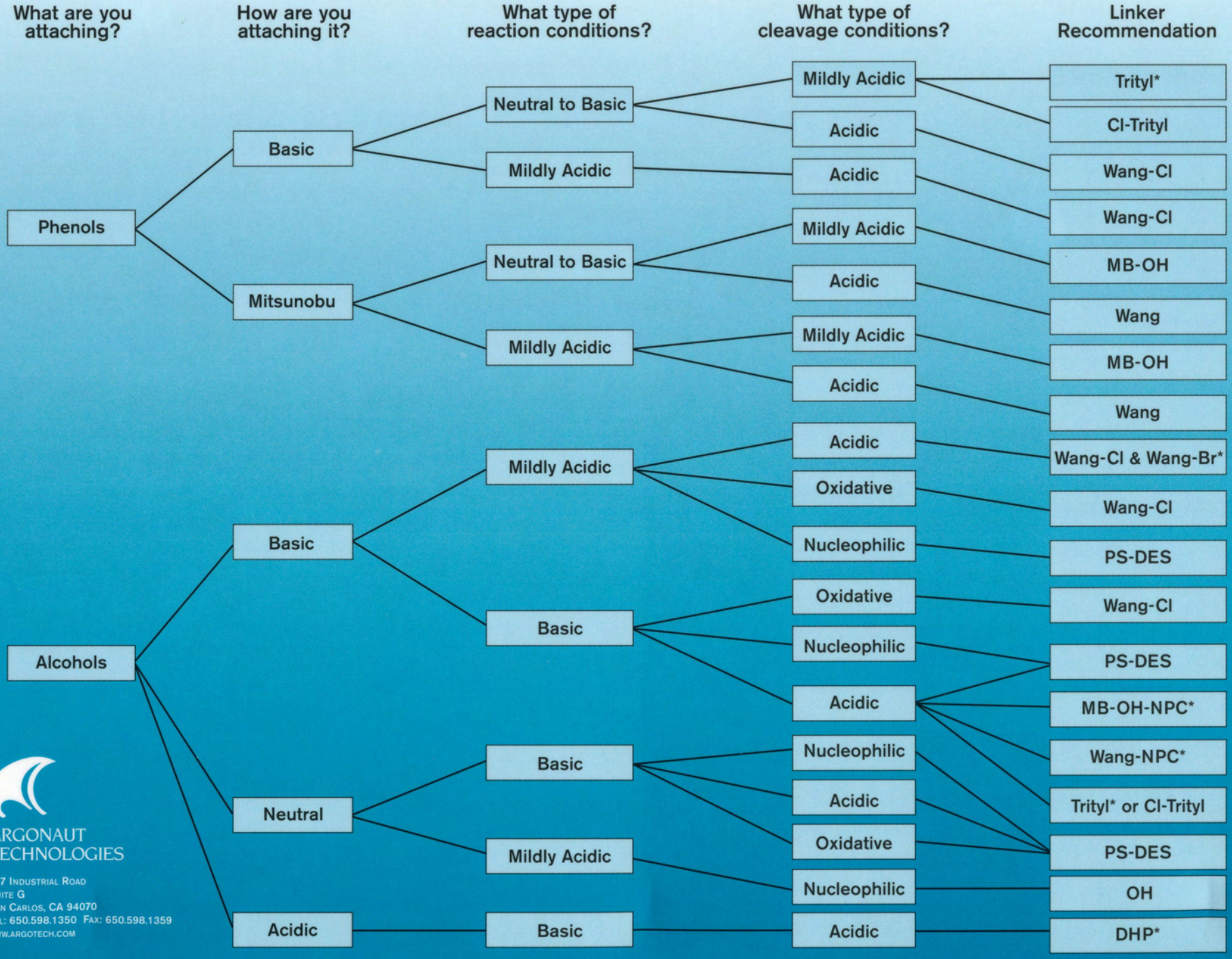
ARGONAUT TECHNOLOGIES

887 Industrial Road, Suite G, San Carlos CA 94070
Tel: 650.598.1350 Fax 650.598.1359
www.argotech.com

* Denotes that linker is available as a custom synthesis

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Solid Phase Linker Selection Guide



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Polymer Reagents

What type of reagent? What application?	Recommended Polymer Reagent
Electrophilic Activation	
Halogenation (chlorination, bromination, iodination)	PS-Triphenylphosphine
Phenylether formation (i.e. Mitsunobu reaction)	PS-Triphenylphosphine
Thioester active intermediate	PS-Thiophenol
Alcohol activation	PS-TsCl
Acid and sulfonyl chloride activation	PS-DMAP
Nucleophilic Activation	
Carbon-carbon bond formation (e.g. Wittig reaction)	PS-Triphenylphosphine
Sulfonyl hydrazone formation (e.g. Hurd-Mori thiadiazole synthesis)	PS-TsNHNH2

What type of reagent? What application?	Recommended Polymer Reagent
Bases	
Basic quenching, neutralize ammonium salts	MP-Carbonate
Strong tertiary amine base (e.g. mesylate formation)	PS-DIEA
Tertiary amine base (e.g. formation of amides, sulfonamides, carbamates)	PS-NMM
Acids	
Acid quenching	MP-TsOH PS-DIEA HCl
Catalysts	
Acids	MP-TsOH
Acyl transfer	PS-DMAP
Coupling Agents	
Amide or ester formation	PS-Carbodiimide PS-HOBt
Activated ester formation	PS-Carbodiimide
Protecting group transfer	PS-HOBt

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Scavengers

. . . for Electrophiles

Which compound to scavenge?	Recommended Scavengers (preferred scavengers in bold)
Carbonyls	**PS-TsNHNH$_2$** PS-Trisamine
Alkylating agents (Alkyl halides, Mesylates, Tosylates, α-bromoesters, α-bromoketones)	**PS-Thiophenol** PS-Triphenylphosphine
Acid chlorides	**PS-Trisamine** PS-NH$_2$
Sulfonyl chlorides	**PS-Trisamine** PS-DMAP PS-NH$_2$
Isocyanates	**PS-Trisamine** PS-NH$_2$
Epoxides	**PS-Thiophenol**

. . . for Nucleophiles

Which compound to scavenge?		Recommended Scavengers (preferred scavengers in bold)
Alcohols		**PS-TsCl-HL**
Amines	Primary, Secondary	**PS-Isocyanate** MP-TsOH PS-TsCl-HL
	Selective for Primary	**PS-Benzaldehyde**
	Anilines (aromatic)	**PS-TsCl-HL** MP-TsOH PS-Isocyanate
Hydrazines		**PS-Benzaldehyde** PS-TsCl-HL
Active methylenes (e.g., keto esters)		**PS-Benzaldehyde**
Thiols/Thiolates		**PS-Isocyanate** PS-Thiophenol
Alkoxides		**PS-TsCl-HL** PS-Isocyanate
Organometallics		**PS-Benzaldehyde** PS-TsCl-HL
Reducing agents		**PS-Benzaldehyde**
Acids/Acidic phenols	HOBt Pentafluorophenol 4-Nitrophenol Carboxylic Acid Phenol	**MP-Carbonate** **PS-Trisamine**

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