Alkynes are highly reactive and the triple bond can exert remarkable effects on the rest of the molecule through a combination of characteristic properties. A number of new alkynes derivatives are now available through Alfa Aesar. Many have already been extensively cited in the scientific literature; here are just a few examples of their use.

6-Heptynoic acid (H53519) has been used in many studies including in fatty acid amide hydrolase inhibitors\(^1\), alkynyl-substituted spirocyclic sulfamides for the treatment of alzheimer’s disease\(^2\), catalytic cyclizations to form \(\varepsilon\)-lactones\(^3\), and the selective fluorescence labelling of lipids in living cells.\(^4\) Hua and coworkers have optimised palladium-catalyzed transfer semihydrogenation of internal alkynes (H30395) affording cis-alkenes in good to high yields with excellent chemo- and stereoselectivity.\(^5\) Yusubov et al. were able to selectively oxidize one triple bonds in the same compound to afford a 1,2-diketones.\(^6\)

The alkyne (H51897) was employed in a multi-step supramolecular chemistry reaction, which terminated with cobalt-catalyzed cyclotrimerization reaction, to yield an extended hexagonal molecule, as a highly symmetrical ligand.\(^7\) The group led by Bureš has studied H51914 and other similar moieties as push-pull molecules with a systematically extended \(\pi\)-conjugated system featuring 4,5-dicyanoimidazole.\(^8\) Alfa Aesar has extended its comprehensive range of heterocyclic compounds with the following alkynes.
Alkynes

H51897  Diphenylacetylene-4,4'-diboronic acid bis(pinacol) ester, 95% [849681-64-7]

H53504  3-Heptyne, 97% [2586-89-2]

H53519  6-Heptynoic acid, 95% [30964-00-2]

H53419  Methyl 4-ethynylbenzoate, 97% [3034-86-4]

H53372  4-Methyl-1-heptyn-3-ol, 97% [87777-46-6]

H53453  Methyl 10-undecynoate, 96% [2777-66-4]

H51914  4-(4-Methoxyphenylethynyl)benzeneboronic acid pinacol ester, 95%

H51699  4-(Phenylethynyl)benzeneboronic acid pinacol ester, 97%

H30058  1-(2-Phenylethyl)-4-(phenylethynyl)benzene, 97% [906650-60-0]

H30638  1-(trans-2-Phenylethenyl)-4-(phenylethynyl)benzene, 97% [21850-30-6]