gaseous compounds of great activity, which prove instantly fatal to animals respiring them. Such effects, however, appear to be obviated by a beautiful expedient, to be noticed hereafter. In the mean time it may be observed, that though the compound of carbon and oxygen, (carbonic acid,) is by innumerable processes constantly forming around us in enormous quantities; by some compensating means, it disappears as fast as it is formed; so that the atmosphere, which without this provision, would probably before now, have become contaminated by carbonic acid to an extent fatal to animal life, barely contains traces of it.

(8) Azote, or nitrogen, is one of the very few elementary principles which exist naturally in an uncombined state. It constitutes about 4-5ths, or 80 per cent. of common air; the rest being principally oxygen. The great bulk of this principle in existence is confined to the atmosphere; or to animal substances, of which it forms a constituent element: and it enters very little into natural mineral productions. In its pure state, azote is remarkable for its negative properties; that is to say, for the difficulty with which it enters into combination with other matters. Thus, it is neither combustible, nor a supporter of combustion; is neither acid, nor alkaline; possesses neither taste, nor smell; nor does it directly combine with any known sub-