Raprenox (Nitrogen Scrubbing) Encyclopedia Article

Raprenox (Nitrogen Scrubbing)

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Raprenox (Nitrogen Scrubbing)

A recently-developed technique for removing **nitrogen oxides** from waste gases makes use of a common, nontoxic organic compound known as cyanuric **acid**, $C_3H_3N_3O_3$. When heated to temperatures of about 660°F (345°C), cyanuric acid decomposes to form isocyanic acid. The acid, in turn, reacts with oxides of **nitrogen** to form **carbon dioxide**, **carbon monoxide**, nitrogen, and water. The process has been given the name of *raprenox*, which comes from the expression *rap*id *re*moval of *ni*trogen *ox*ides. In tests so far, the method has worked very well with internal **combustion** engines, removing up to 99% of all nitrogen oxides from exhaust gases. Its efficiency with gases released from smokestacks has not yet been determined.

See Also

Scrubbers