```
function [Vweak,Pweak] = weak()
    CEAweak = [
   1.1146E+01  1.3198;
   1.2666E+01  1.4998;
   1.4185E+01  1.6798;
   1.5705E+01  1.8597;
   1.7225E+01  2.0397;
   1.8745E+01  2.2197]; % P rho



    P1 = 1; %atm
    T1 = 298; %K
    M1 = 29.34; %1/n
    D1 = 1.199826;

    Vweak = zeros(1,length(CEAweak)+1);
    Pweak = zeros(1,length(CEAweak)+1);

    Vweak(1) = 1;
    Vweak(2:end) = D1./CEAweak(:,2);

    Pweak(1) = 9.45531;

    for i = 1:length(CEAweak)
       Pweak(i+1) = CEAweak(i,1)*(0.986923)/P1;
    end

end


ans =

    1.0000    0.9091    0.8000    0.7143    0.6452    0.5882    0.5405
```

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