Gas Composition: Volume % to Mass %

11/10/2026

Project: volume-to-weight

Input Parameters

Oxygen (O2) by volume	20.950 %
Nitrogen (N2) by volume	78.080 %
Carbon dioxide (CO2) by volume	0.040000 %
Water vapour (H2O) by volume	0 %
Sulphur dioxide (SO2) by volume	0 %
Carbon monoxide (CO) by volume	0 %
Hydrogen (H2) by volume	0 %
Argon (Ar) by volume	0.93000 %

Calculated Results

Oxygen by mass	23.143 %
Nitrogen by mass	75.514 %
Carbon dioxide by mass	0.060773 %
Water vapour by mass	0 %
Sulphur dioxide by mass	0 %
Carbon monoxide by mass	0 %
Hydrogen by mass	0 %
Argon by mass	1.2826 %
Mixture molar mass	28.966 kg/kmol