Gas Composition: Mass % to Volume %

11/10/2026

Project: weight-to-volume

Input Parameters

Oxygen (O2) by mass	23.143 %
Nitrogen (N2) by mass	75.514 %
Carbon dioxide (CO2) by mass	0.060773 %
Water vapour (H2O) by mass	0 %
Sulphur dioxide (SO2) by mass	0 %
Carbon monoxide (CO) by mass	0 %
Hydrogen (H2) by mass	0 %
Argon (Ar) by mass	1.2826 %

Calculated Results

Oxygen by volume	20.950 %
Nitrogen by volume	78.080 %
Carbon dioxide by volume	0.040000 %
Water vapour by volume	0 %
Sulphur dioxide by volume	0 %
Carbon monoxide by volume	0 %
Hydrogen by volume	0 %
Argon by volume	0.93000 %
Mixture molar mass	28.966 kg/kmol