

Plant Nutrition of Greenhouse Crops

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 Springer

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Definitions

Adjusted mol weight	mole weight adjusted on residual constituents, defined “molweight”, expressed as: mol
C⁺	Sum of valences of all cations in a solution, expressed as: mol l ⁻¹
c	Ion concentration in a solution, expressed as: mol l ⁻¹
CEC	Cation exchange capacity, electric charges on the surface of a material to adsorb cations, expressed as: mol kg ⁻¹
EC	Electrical conductivity at 25°, expressed as: dS m ⁻¹
Hydroponics	Cultivation in nutrient solution without any substrate other than the propagation material
Inert substrate	Substrate that does not affect the status of the substrate solution as such that specific adjustments are required for compensation
m	mille (10 ⁻³)
μ	micro (10 ⁻⁶)
1:2 volume extract	A specific extract prepared from 2 volumes of water to which so much field moist soil is added that the volume is increased with one volume
Residual salts	Salts accumulated in the root zone of soils or substrates from fertilizers or irrigation water, because of an uptake lower than the addition
Root environment	For soils <i>in situ</i> the soil depth in which the majority of the roots will be present. For greenhouses mostly 25 cm. For substrates usually the total substrate volume is taken into account

Salinity threshold	The maximum EC value in the root zone without any yield reduction, expressed as: dS m^{-1}
Soil solution	Solution extracted from soils at field capacity as defined in Section 3.3
Soilless cultivation	Cultivation other than in soils <i>in situ</i>
Substrate	Growing medium other than soils <i>in situ</i>
Substrate solution	Solution extracted from growing media at field moist condition as defined in Section 3.3
SYD	The slope of the salinity response function for values above the salinity threshold value in percents per unit EC, expressed as: $\%/\text{dS m}^{-1}$
Uptake concentration	The ratio between the uptake of a mineral element and the water uptake by the crop, expressed as: mol l^{-1}
VPD	Vapour pressure deficit, expressed as: kPa

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