

static stability

In meteorology, the stability of the atmosphere in the vertical direction to vertical displacements. If Γ is the dry adiabatic lapse rate, dry air is stable if the lapse rate $-\frac{dT}{dz} < \Gamma$, unstable if $-\frac{dT}{dz} > \Gamma$ and neutral $-\frac{dT}{dz} = \Gamma$.

See: lapse rate, inversion

Source:

PAC, 1990, 62, 2167 (*Glossary of atmospheric chemistry terms (Recommendations 1990)*) on page 2215