RAIS/EPA Human Health Risk Assessment Acronyms – Quick Reference

ABS: Dermal Absorption Factor - Soil
ACF: Area Correction Factor
ACH: Air exchanges per Hour
ADAF: Age-Dependent Adjustment Factor
A_{eq}: Activity Equilibrium Factor
AF: soil Adherence Factor
BP: Boiling Point
ARAR: Applicable or Relevant and Appropriate Requirement
AT: Averaging Time
ATSDR: Agency for Toxic Substances and Disease Registry
BCF: Fish Bioconcentration Factor
BDCC: Dose Compliance Concentration for Buildings
BPRG: Preliminary Remediation Goal for Buildings
BP: Boiling Point
BW: Body Weight
CAS: Chemical Abstract Service registry number
CDI: Chronic Daily Intake
CERLCA: Comprehensive Environmental Response, Compensation, and Liability Act
COC: Contaminant of Concern
COPC: Contaminant of Potential Concern
C_{sat}: Soil Saturation Concentration/Limit
CSF_i: Cancer Slope Factor (inhalation)
CSF_o: Cancer Slope Factor (oral)
DAF: Dilution Attenuation Factor
DCC: Dose Compliance Concentration
DCF: Dose Conversion Factor
D_{ia}: Diffusivity in Air
D_{iw}: Diffusivity in Water
DL: Dose Limit
ED: Exposure Duration
EF: Exposure Frequency
ELCR: Excess Lifetime Cancer Risk
EPD: Effective Predictive Domain (only calculate dermal for water in this domain)
ET: Exposure Time
EV: Exposure Events
FA: Fraction Absorbed
F_{eq}: Fractional Equilibrium Factor
GIABS: Gastrointestinal Absorption Factor
GSF: Gamma Shielding Factor
H': Unitless Henry's Law Constant
HEAST: Health Effects Assessment Summary Tables
HI: Hazard Index (Sum of HQs)
HLC: Henry's Law Constant
HQ: Hazard Quotient (non-cancer)
IRIS: EPA Integrated Risk Information System
IRA: Inhalation Rate of Air
IRS: Ingestion Rate of Soil
IRW: Ingestion Rate of Water
IUR: Inhalation Unit Risk (cancer)
K: Andelman's Volatilization Factor
K_d: Soil-to-Water Partition Coefficient
K_{oc}: Organic Carbon Partition Coefficient
K_p: Skin Permeability Coefficient
λ: Lambda Decay Constant

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$\log K_{ow}$: Log Octanol-Water Partition Coefficient
LT: Lifetime
MCL: Maximum Contaminant Level
MCLG: Maximum Contaminant Level Goal
MP: Melting Point
MRL: Minimal Risk Level
MW: Molecular Weight
NAPL: Nonaqueous Phase Liquid
NPL: National Priorities List
OPP: EPA Office of Pesticide Programs
PAH: Polycyclic Aromatic Hydrocarbon
PCB: Poly Chlorinated Biphenyl
PEF: Particulate Emission Factor
PFAS: Per- and Polyfluoroalkyl Substances
PPRTV: EPA Provisional Peer-Reviewed Toxicity Value
PRG: Preliminary Remediation Goal
RAGS: Risk Assessment Guidance for Superfund
RAIS: Risk Assessment Information System
RfC: Reference Concentration (inhalation noncancer)
RfD: Reference Dose (oral noncancer)
RGO: Remedial Goal Option
RML: Removal Management Level
RPF: Relative Potency Factor
RPQ: Relative Potency Concentration
RSL: Regional Screening Level
RVISL: Radon Vapor Intrusion Screening Level
S: water Solubility
SA: Surface Area
SARA: Superfund Amendments and Reauthorization Act
SDCC: Dose Compliance Concentration for Outdoor Surfaces
SE: Secular Equilibrium
SF: Slope Factor (cancer)
SF_f: Food Slope Factor (cancer)
SF_i: Inhalation Slope Factor (cancer)
SF_{ext}: External Exposure Slope Factor
SF_{imm}: Immersion Slope Factor (cancer)
SF_{sub}: Submersion Slope Factor (cancer)
SFO: Oral Slope Factor (cancer)
SL: Screening Level
SPRG: Preliminary Remediation Goal for Outdoor Surfaces
SSL: Soil Screening Level (protective of groundwater)
SVOC: Semi-Volatile Organic Compound
TEF: Toxicity Equivalent Factor
TEQ: Toxicity Equivalent Concentration
THQ: Target Hazard Quotient
TR: Target Risk (cancer exposure)
VF: Volatilization Factor
VISL: Vapor Intrusion Screening Level
VOC: Volatile Organic Compound
VP: Vapor Pressure