

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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logK_{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