

Kentucky 2022 Remedial Soil Values for Total Petroleum Hydrocarbon Fractions

TPH Fractions	Approximate Method 8015 Equivalent	Number of Carbons	Representative Compound (RfD/RfC)	Representative Compound (Chemical Parameters)	RSL (mg/kg)
Low aliphatic	GRO	C5 – C8	Commercial hexane ¹	n-hexane	520
Medium aliphatic	Medium Distillates	C9 – C18	Mid-range aliphatic hydrocarbon streams	n-nonane	96
Medium aromatic	DRO	C9 – C16	2-methylnaphthalene / naphthalene	Average of 2-methylnaphthalene and naphthalene	97
High aromatic	ORO ²	C17 – C32	Fluoranthene	Fluoranthene	2400

Modified from US EPA RSL User's Guide, May 2022

These values are intended as soil remedial goals for hydrocarbon mixtures where compounds with carcinogenic endpoints and all low carbon range aromatics (BTEX) are below their respective RSLs. This table is meant to be used when data is generated using Method 8015. It is understood that the carbon ranges reported by a given laboratory may not align with the ranges displayed above.

¹ It is recommended that the RfC for commercial hexane be used as the surrogate toxicity value for this fraction unless it is known that n-hexane accounts for greater than 53% of the fraction in which case the RfC for that compound would be used.

² Some laboratories may also be able to quantify oil range organics (ORO) using Method 8015