

T-41 is an acid-activated bentonite clay containing approximately 10% activated carbon. Its combination of strongly acidic pH (2.2–3.5) and activated carbon provides aggressive, broad-spectrum adsorption of pigments, heavy metals, oxidizers, and other contaminants. It is most commonly used as a pre-distillation scrub or in color remediation columns for botanical extract purification.

SECTION 1: PRODUCT IDENTIFICATION

Product Name	T-41
CAS Number	Mixture — Acid-leached Bentonite (UVCB): 1302-78-9; Activated Carbon: 7440-44-0
Chemical Nature	Natural bentonite, acid-leached + ~10% activated carbon (UVCB substance)
GHS Classification	Not classified as hazardous by mixture criteria. Dust and acidic pH require caution.
Supplier	Cannagas Supply 97 Turnpike Rd, Westborough, MA 01581 877-710-1965 Sales@canna-gas.com

SECTION 2: PHYSICAL & CHEMICAL PROPERTIES

Physical State	Dark grey powder	Solubility	<0.9 g/L in water at 20°C
Odor	Odorless	Vapor Pressure	Not applicable (solid)
pH	2.2–3.5 (ACIDIC — use caution)	VOC Content	None
Bulk Density	250–750 kg/m ³	Carbon Content	~10% activated carbon
Flammability	Not flammable (unused)	Flow Rate	Good, consistent particle size
Flash Point	Not applicable	Appearance	Dark grey/black powder

SECTION 3: PERFORMANCE & APPLICATIONS

Primary Use	Aggressive color remediation and oil purification. Most commonly used as a pre-distillation scrub in botanical extract processing.
Adsorption Targets	Pigments (chlorophyll, carotenoids, anthocyanins); heavy metals; oxidizers; pesticides (when paired with MagSil PR); odors; polar impurities.
Dual-Action	Acid-activated clay provides ion-exchange and bleaching action. Activated carbon (~10%) provides broad-spectrum hydrophobic adsorption.
pH Advantage	Low pH (2.2–3.5) provides strong adsorption force for basic compounds and heavy metal cations. More aggressive than neutral clays for difficult matrices.
Typical Dosage	5–15% w/w of feed material. Pair with MagSil PR for pesticide remediation.
Process Use	Used prior to distillation. Also effective in CRC columns for color remediation and Delta-8 isomerization preparation.
vs T-5	T-41 is more aggressive than T-5 due to acidic pH and carbon content. Use T-41 when stronger remediation is needed. T-5 preferred when pH neutrality is required.

SECTION 4: STORAGE & HANDLING

Storage	Sealed containers in cool, dry, ventilated area. Keep away from oxidizing agents. Note: activated carbon component may deplete O ₂ in sealed containers — ensure ventilation.
Shelf Life	Indefinite in sealed, dry storage.

PPE Dust mask, eye protection, gloves. Note acidic pH — flush well if skin/eye contact occurs.

Incompatibles Keep away from oxidizing agents.

SECTION 5: SAFETY SUMMARY

■ **SAFETY NOTE:** Acidic pH (2.2–3.5): prolonged skin or eye contact may cause irritation. Avoid breathing dust. Activated carbon may deplete oxygen in sealed containers. Refer to full SDS for complete information.

GHS Signal Word WARNING (dust/pH)

Key Precautions Avoid breathing dust. Handle acidic pH with care. Ensure ventilation in storage.

SDS Reference Full SDS available. CHEMTREC: 1-800-424-9300.

DISCLAIMER: The information provided in this Technical Data Sheet is based on data believed to be accurate as of the issue date. Cannagas Supply makes no warranty regarding fitness for a particular purpose or accuracy of the information herein. Users are responsible for determining suitability for their specific application. Always refer to the Safety Data Sheet (SDS) for complete safety and regulatory information.