

TBAc Solvent

(Tertiary Butyl Acetate)

Physical Properties



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CAS Number.....	540-88-5
Elemental Formula.....	C ₆ H ₁₂ O ₂
Molecular Weight (g/mole).....	116.16
Boiling Point (°C).....	98
Solidification Point (°C).....	-58
Flash Point (Tag Closed Cup) °C (°F).....	4.4 (40)
Vapor Pressure (mm Hg @ 20°C).....	31
Evaporation Rate (vs n-BuAc = 1).....	2.8
Density (g/ml @ 25°C) (lbs/gal).....	0.8599 (7.18)
Viscosity (cps @ 25°C).....	<1
Surface Tension (dynes/cm).....	22.4
Dielectric Constant (DIC @ 20°C in cyclohexane).....	1.94
Electrical Resistivity (megaOhms).....	23.81
Solubility in Water (wt% @ 23°C).....	0.8
Maximum Incremental Reactivity (MIR, g ozone/gTBAc).....	0.20
Hansen 3D Solubility Parameters, cgs units	
Hansen D.....	6.97
Hansen P.....	1.66
Hansen H.....	2.91
Total Hansen.....	7.73
KB Value.....	114
DOT Classification.....	Class 3 Flammable
NFPA & HMIS Ratings (H/F/R).....	1/3/0
EPA VOC Status.....	exempt*
SNAP-Approved.....	yes
OSHA PEL (ppm).....	200
SARA 313 List.....	not listed
HAP List.....	not listed
Cal Prop 65 List.....	not listed
Ozone Depleter.....	no
Greenhouse Gas.....	no
Acute Toxicity (LD50).....	slight (4.5 gram/kg)
Eyes/Skin Irritation.....	slight/slight
Sensitizer.....	no
Carcinogen.....	no
Reproductive Toxin.....	no
Mutagen.....	no

*The U.S. EPA has published a rule excluding tertiary butyl acetate from the Federal definition of a VOC (40 C.F.R. § 51.100(s)(5); see also 69 FR 69304). State and local definitions may vary.

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