

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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