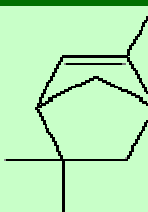


alpha-PINENE

PRODUCT IDENTIFICATION

CAS NO.	80-56-8 7785-70-8 (+)-alpha-Pinene 7785-26-4 (-)-alpha-Pinene	
EINECS NO.	201-291-9, 219-445-9	
FORMULA	C ₁₀ H ₁₆	
MOL WT.	136.24	
H.S. CODE	2902.19	
TOXICITY		
SYNONYMS	Pin-2(3)-ene Pin-2(3)-eno (Spanish) Pin-2(3)-ène (French) 2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene; 2-Pinene; Pinene; Acintene A; 4,6,6-Trimethylbicyclo(3,1,1)hept-3-en; alpha-(+)-Pinene; Terpene hydrocarbon; Other RN: 2437-95-8	
SMILES	C12C(C(C1)CC=C2C)(C)C	
CLASSIFICATION	Flavor, Monoterpene	
EXTRA NOTES	UN2368 [Flammable liquid] beta-Pinene is also available; used in manufacture of camphor, insecticides, solvents, plasticizers, perfume bases, synthetic pine oil; can be irritating to skin, mucous membranes; an insect attractants.	

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Clear liquid
MELTING POINT	-62 C
BOILING POINT	154 -156 C
SPECIFIC GRAVITY	0.855 - 0.860
SOLUBILITY IN WATER	Insoluble (soluble in alcohol, chloroform, ether)
pH	
VAPOR DENSITY	
AUTOIGNITION	255 C
NFPA RATINGS	Health: 1 Flammability: 2 Reactivity: 0
REFRACTIVE INDEX	1.4657
FLASH POINT	33 C
STABILITY	Stable under ordinary conditions