

## PRODUCT DATA SHEET METABOLIX E3HB

Metabolix E3HB is the ethyl ester of (R) 3-hydroxybutyric acid obtained from the alcoholysis of poly (R) 3-hydroxybutyric acid a polymer made from renewable resource based crops.

Metabolix E3HB, ethyl ester of (R) 3-hydroxybutyric acid, is an excellent industrial solvent that may be used as an alternative to traditional chlorinated, hydrocarbon, ketone and ester solvents. It offers the unique properties of biodegradability combined with water miscibility, low volatility and high flash point that make it useful in regulated markets such as ozone-depleting chemicals (ODC), hazardous air pollutants (HAPS) and/or volatile organic compounds (VOC). Metabolix E3HB biodegrades in to carbon dioxide and water.

### Metabolix E3HB Specification

Property	Units	Value
Molecular formula		HO CH (CH <sub>3</sub> ) CH <sub>2</sub> COO CH <sub>2</sub> CH <sub>3</sub>
Formula Weight		132.16
Boiling point range	C / F	180-184 / 356-361
Flash point (seta)	C / F	73 / 163
Vapor pressure 25C	mm mercury	3.9
Specific gravity	g/cc	1.013
Heat of combustion	Btu/lb	10993
Viscosity (kinematic)	cSt	4.16
Specific conductance	μmhos/cm	0.23
Evaporation rate	BuAc=1	0.03
Hansen solubility parameter	Dispersive	16.3
Hansen solubility parameter	Polar	4.5
Hansen solubility parameter	hydrogen	10.4