TECHNICAL DATA SHEET

Trade name : PIPERONYL BUTOXIDE ULTRA

This material complies with the WHO Specification 33/TC (September 2011) and FAO Specification 33/TC (September 2011) for Piperonyl Butoxide

CHEMICAL IDENTIFICATION

Nomenclature

Common name	:	Piperonyl Butoxide
IUPAC	:	5-{[2-(2-butoxyethoxy)ethoxy]methyl}-6-propyl-1,3-benzodioxole
CA name	:	1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-
Others	:	(Butylcarbityl) (6-propyl-piperonyl) ether PBO

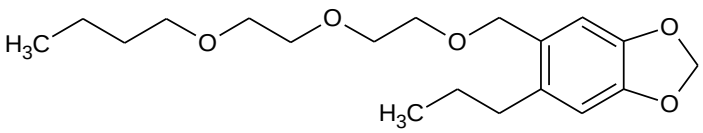
CAS number : 51-03-6

EC number : 200-076-7

Molecular formula : $C_{19}H_{30}O_5$

Molecular weight : 338.40

Structural formula :



PRODUCT SPECIFICATIONS

Chemical assay (ENDQC-3 method by HRGC)	:	
Piperonyl Butoxide	:	**94.0 % a/a min.***
Butyl Carbitol ®	:	2.0 % a/a max.
Dipiperonyl methane	:	4.0 % a/a max.
Dipiperonyl ether	:	2.0 % a/a max.
Acidity number (ENDQC-6 method)	:	0.1 mg KOH/g max.
Density (ENDQC-4 method)	:	1.060 (±0.005) g/cm^3 at 20°C
Colour (ENDQC-7 method)	:	2.5 max (Gardner scale)
Appearance (visual method)	:	Pale yellow oily liquid

* The analytical result expressed in a/a is equivalent to the w/w analysis.

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ADDITIONAL INFORMATION

Odour	:	Mildly aromatic
Refractive index	:	1.502 (±0.005)
Boiling point	:	203 °C at 278 Pa
Vapour pressure	:	2.11 x 10^{-7} hPa at 60°C
Flash point	:	179.2 °C
Solubility	:	Practically insoluble in water Soluble in all common organic solvents including mineral oils and petroleum distillates
Partition coefficient (Log Pow)	:	4.8

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