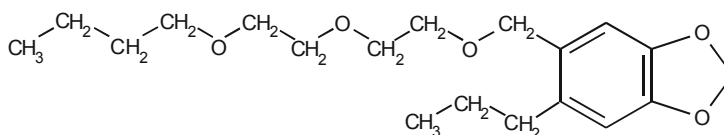


TECHNICAL DATA SHEET

Trade name : PIPERONYL BUTOXIDE PHARMA GRADE

**THE PRODUCT COMPLIES WITH THE
BRITISH PHARMACOPOEIA (VETERINARY) REQUIREMENTS**

Structural formula :



Molecular formula : C₁₉H₃₀O₅

Molecular weight : 338.4

CAS number : 51-03-6

Definition : Not less than 85.0 % of C₁₉H₃₀O₅

Common name : Piperonyl Butoxide

CAS (9th CI) : 5-[[2-(2-Butoxyethoxy)ethoxy]methyl]-6-propyl-1,3-benzodioxole

Characteristics : Yellow or pale brown, oily liquid; odour faint and characteristic
 Very slightly soluble in water; miscible with chloroform, with ethanol, with ether and with petroleum oils

Identification

Light absorption : Well defined maxima at 238 nm and 290 nm
 Absorbances at maxima: 1.2 and 1.0 respectively

Refractive index : 1.497 to 1.512

Weight per ml : 1.050 to 1.065 g

Sulphated ash : Not more than 0.2 %

*NOTE: Endura reserves the right to make amendments to the data reported in this sheet either in compliance to any official body's updating or in agreement with Internal Company decisions.
 The reported information is, to the best of our knowledge, as accurate and complete as possible and is given in good faith but without warranty from our part. Any use for Registration purposes must be authorised by Endura in advance.*

TECHNICAL DATA SHEET

Trade name : PIPERONYL BUTOXIDE PHARMA GRADE

PRODUCT SPECIFICATIONS

Chemical assay (ENDQC-3 method by HRGC)

Piperonyl Butoxide	:	94.0 %	min
Butyldiglycol	:	2.0 %	max
Dipiperonyl methane	:	3.0 %	max
Dipiperonyl ether	:	1.5 %	max
Dihydrosafrole	:	Below LOQ	

Acidity number (ENDQC-6 method) : 0.1 mg KOH / g max

Colour : 2.5 max (Gardner scale)

ADDITIONAL INFORMATION

Boiling point : 180 °C at 133 Pa

Vapour pressure : $< 1.33 \times 10^{-5}$ Pa at 25 °C

Flash point : 179 °C

Partition coefficient (Log Pow) : 4.62 at 20 °C

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