

BUTAN - 1,3 – DIOL

Prepared at the 23rd JECFA (1979), published in FNP 12 (1979) and in FNP 52 (1992). Metals and arsenic specifications revised at the 63rd JECFA (2004). An ADI of 0-4 mg/kg bw was established at the 23rd JECFA (1979)

SYNONYMS 1,3-Butylene glycol, β-butylene glycol

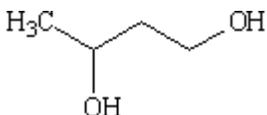
DEFINITION

Chemical names Butan-1,3-diol

C.A.S. number 107-88-0

Chemical formula $C_4H_{10}O_2$

Structural formula



CC(O)CCO

Formula weight 90.12

Assay Not less than 99% w/w

DESCRIPTION Clear colourless, odourless, hygroscopic, viscous liquid

FUNCTIONAL USES Carrier solvent

CHARACTERISTICS

IDENTIFICATION

Solubility (Vol. 4) Miscible with water, acetone and ether; soluble in fixed oils, ethanol, ether

Specific gravity (Vol. 4) 1.004 - 1.006

PURITY

Distillation range (Vol. 4) 200-215°

Water (Vol. 4) Not more than 0.5% w/w (Karl Fischer Method)

Lead (Vol. 4) Not more than 2 mg/kg
Determine using an atomic absorption technique appropriate to the specified level. The selection of sample size and method of sample preparation may be based on the principles of the method described in Volume 4, "Instrumental Methods."

METHOD OF ASSAY Proceed as directed under *Hydroxyl Value* in Volume 4 using 0.2 g of the sample and calculate the content by the formula:

