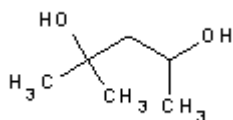


PRODUCT CODE: 141348

2-Methyl-2,4-Pentanediol (USP-NF) pure, pharma grade

C₆H₁₄O₂

C₆H₁₄O₂



M.= 118,18

CAS [107-41-5]

EINECS 203-489-0

TARIC 2905 39 95 90

SYNONYMS: Hexylene glycol

PHYSICAL DATA: liquid, Clear, Colourless, Miscible with water • D 20/4 0,923 • M.P.: -50 °C • B.P.: 196 °C • n₂₀/D : 1,427 • Flash P.:93 °C • Ign. T.:260 °C • Vap. press. (28 °C) 0,07 hPa • Expl. limit4,7 %(V)99 %(V) •

BIBLIOGRAPHY: Merck Index **12**, 4.748 13, 4.730 Sax **DMX600** • Safety **2** , **2204 B** • Kühn-Birett **H 7** • Beilstein **1** , **486 I** , **252 II** , **552 III** ,**2206 IV**, **2565** • BRN 1098298 • Fieser 1693 • USP -**NF 38** •

HAZARDOUS: C.E: 603-053-00-3 • RTECS: SA 0810000 • LD50 oral rbt 3.200 mg/kg • LD50 oral mus 3.097 mg/kg • LD50 oral rat 3.700 mg/kg • TC L0 man 50ppm • LD50 skn rbt 8.560 mg/kg • LD50 ipr mus 1.299 mg/kg VLA-EC 25 ppm123 mg/m3



H: H319 • H315 •

P: P264 • P280 • P302+P352 • P305+P351+P338 • P321 • P501 • P332+P313 • P337+P313 • P362 •

WEIGHT/VOLUME INFORMATION: 1l~0,920 kg 1kg~1,087 l

SPECIFICATIONS:

Assay (G.C.)

98,0 - 102,0 %

Identity :

Identity according to Pharmacopoeias:

passes test

Density at 25/25

0,917-0,923

Refractive Index n _{25/D}	1,424-1,430
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Maximum limit of impurities

Acidity(as CH ₃ COOH)	0,013%
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Residual solvents (Ph.Eur/USP)	passes test
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Organic impurities (G.C.):

Acetone	0,1 %
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2-Propanol	0,1 %
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4-Methyl-2-Pentanone	0,1 %
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4-Methyl-2-Pentanol	0,1 %
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Diacetone Alcohol	0,1 %
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Any other unspecified impurity	0,1 %
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Total	1,0 %
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Water (H ₂ O)	0,5 %
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Elemental impurities (ICH Q3D):

Class 1

Cd	0,5 ppm
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Pb	0,5 ppm
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As	1,5 ppm
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Hg	1,5 ppm
----	---------

Class 2A

Co	5 ppm
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V	10 ppm
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Ni	20 ppm
----	--------

Class 2B

Tl	0,8 ppm
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Au	10 ppm
----	--------

Pd	10 ppm
----	--------

Ir	10 ppm
----	--------

Os	10 ppm
----	--------

Rh	10 ppm
----	--------

Ru	10 ppm
----	--------

Se	15 ppm
----	--------

Ag	15 ppm
----	--------

Pt	10 ppm
----	--------

Class 3

Li	55 ppm
----	--------

Sb	120 ppm
----	---------

Ba	140 ppm
----	---------

Mo	25 ppm
----	--------

Cu	250 ppm
----	---------

Sn	600 ppm
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Cr	25 ppm
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