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2 4 dimetil pentano

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Licensed under the Attribution-Noncommercial 4.0 International License (CC BY-NC 4.0). 80.6 °C-119.9 °C0.240 g/cm³(1) Mu, Lai-long; Fenzi Kexue Xuebao, (2002), 18(3), 162-168, CAplus(2) PhysProp data were obtained from Syracuse Research Corporation of Syracuse, New York (US)(3) Mick, Jason R.; Journal of Chemical & Engineering Data, (2017), 62(6), 1806-1818, CAplusInChI=1S/C7H16/c1-6(2)5-7(3)4/h6-7H,5H2,1-4H3InChIKeyInChIKey=BZHMBWZPUJHVEE-UHFFFAOYSA-NSMILESC(C(C)C)C(C)CCanonical SMILESCC(C)CC(C)COther Names for this SubstancePentane, 2,4-dimethyl-2,4-DimethylpentaneNSC 61989 CAS Common Chemistry is provided under the Creative Commons CC BY-NC 4.0 license. By using CAS Common Chemistry, you agree to the terms and conditions of this license. ChemicalBook >> CAS DataBase List >>2,4-DIMETHYLPENTANE 2,4-DIMETHYLPENTANE structure CAS No. 108-08-7 Chemical Name: 2,4-DIMETHYLPENTANE Synonyms Dimethylpentane;DIISOPROPYLMETHANE;Heptan und Isomere;2,4-dimethyl-pentan;2,4-DIMETHYLPENTANE;pentane,2,4-dimethyl-;2,4-Dimethylpentane >2,4-DIMETHYLPENTANE 99+%;2,4-Dimethylpentane, 98+%;C12728400 2,4-Dimethylpentane CBNumber: CB6124030 Molecular Formula: C_7H_{16} Molecular Weight: 100.2 MDL Number: MFCD00008945 MOL File: 108-08-7.mol MSDS File: SDS Last updated:2025-01-27 09:38:02 Melting point −123 °C(lit.) Boiling point 80 °C(lit.) Density 0.673 g/mL at 25 °C(lit.) vapor density 3.48 (vs air) vapor pressure 3.29 psi (37.7 °C) refractive index n20/D 1.381(lit.) 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Please enable Javascript in order to use PubChem website. 2,4-Dimethylpentane Names Preferred IUPAC name 2,4-Dimethylpentane Identifiers CAS Number 108-08-7 3D model (JSmol) Interactive image ChemSpider 7619 ECHA InfoCard 100.003.226 EC Number 203-548-0 PubChem CID 7907 UNII 4JT8Q9QOHI UN number 1206 CompTox Dashboard (EPA) DTXSID2059358 InChI InChI=1S/C7H16/c1-6(2)5-7(3)4/h6-7H,5H2,1-4H3Key: BZHMBWZPUJHVEE-UHFFFAOYSA-N SMILES CC(C)CC(C)C Properties Chemical formula C_7H_{16} Molar mass 100.205 g·mol−1 Appearance Colorless liquid Density 0.6971 g/cm3 (0 °C) Melting point −119.9 °C (−183.8 °F; 153.2 K) Boiling point 80.4 °C (176.7 °F; 353.5 K) Hazards Occupational safety and health (OHS/OSH): Main hazards inflammable GHS labelling: Pictograms Signal word Danger Hazard statements H225, H304, H315, H335, H336, H410 Precautionary statements P210, P233, P240, P241, P242, P243, P261, P264, P271, P273, P280, P301+P310, P302+P352, P303+P361+P353, P304+P340, P312, P321, P331, P332+P313, P362, P370+P378, P391, P403+P233, P403+P235, P405, P501 Except where otherwise noted, data are given for materials in their standard state (at 25 °C [77 °F], 100 kPa). Infobox references Chemical compound 2,4-Dimethylpentane is an alkane with the chemical formula $[(H_3C)_2CH]_2CH_2$. This colorless hydrocarbon is produced in large quantities in oil refineries. It results from the alkylation of isobutane by propylene.[1] Often referred to as "alkylate", it is blended with other gasoline components to give a high octane fuel. Unlike n-heptane, 2,4-dimethylpentane is a desirable fuel because its branched structure allows combustion without knocking. Typical acid-catalyzed route to dimethylpentane. ^ Bipin V. Vora; Joseph A. Kocal; Paul T. Barger; Robert J. Schmidt; James A. Johnson (2003). "Alkylation". Kirk-Othmer Encyclopedia of Chemical Technology. doi:10.1002/0471238961.0112112508011313.a01.pub2. ISBN 9780471484943. Retrieved from " 2 The following pages link to 2,4-Dimethylpentane External tools (link count transclusion count sorted list) · See help page for transcluding these entries Showing 11 items. 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Sistema Internacional de Unidades 03:03 +9 2806:2a0:81c:a868:4d74:9b8:ce09:6e0 discusión Etiquetas: Revertido Edición visual Edición desde móvil Edición vía web móvil Obtenido de « CambiosEnEnlazadas/2,4-dimetilpentano» ChemicalBook >> CAS DataBase List >>2,4-DIMETHYLPENTANE 2,4-DIMETHYLPENTANE structure CAS No. 108-08-7 Chemical Name: 2,4-DIMETHYLPENTANE Synonyms Dimethylpentane;DIISOPROPYLMETHANE;Heptan und Isomere;2,4-dimethyl-pentan;2,4-DIMETHYLPENTANE;pentane,2,4-dimethyl-;2,4-Dimethylpentane >2,4-DIMETHYLPENTANE 99+%;2,4-Dimethylpentane, 98+%;C12728400 2,4-Dimethylpentane CBNumber: CB6124030 Molecular Formula: C_7H_{16} Molecular Weight: 100.2 MDL Number: MFCD00008945 MOL File: 108-08-7.mol MSDS File: SDS Last updated:2025-01-27 09:38:02 Melting point −123 °C(lit.) Boiling point 80 °C(lit.) Density 0.673 g/mL at 25 °C(lit.) vapor density 3.48 (vs air) vapor pressure 3.29 psi (37.7 °C) refractive index n20/D 1.381(lit.) 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