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# 樣本記錄

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**Monograph Details**

Monograph ID: MGN0159000047  
Title: Acetaminophen  
CAS Registry Number: 100-90-2  
CAS Name: N-(4-Hydroxyphenyl)acetamide  
Additional names: 4-hydroxyacetanilide, p-hydroxyacetanilide, p-acetamidophenol, p-acetaminophenol, p-acetyleninophenol, N-acetyl-p-aminophenol, paracetamol  
Trademark Names: Acamol (Vols), Alpinyl (SS Pharm), Alvedon (AstraZeneca), Aniba (Abbott), Benuron (Novartis), Calpol (Pfizer), Calradol (Bayer), Caplin (Kirewa), Dafalgan (BMS), Dabri (BMS), Dipro (Gramon), Disprol (Reckitt Benckiser), Dolprane (Sanofi-Aventis), Doltsab (Sanofi-Aventis), Dolviran (Bayer), Efferalgan (BMS), Efferalganods (UPSA), Eneffa (Datoripet), Expanzol (Exparpharm), Fensam (Merck), Geloprofen (Sanofi-Aventis), Hexed (GSK), Males (Ecosol), Mepralito (GSK), Paradol (GSK), Panamax (Sanofi-Aventis), Paradol (GSK), Paralind N (Stada), Paralgan (BMS), Sarpipina (Bayer), Sedalol (Merck KGaA), Tempra (BMS), Tylenol (Mitsui)

Molecular Formula: C<sub>9</sub>H<sub>9</sub>NO<sub>2</sub>  
Molecular Weight: 151.17  
Percent Composition: C 63.56%, H 6.00%, N 9.27%, O 21.17%

**Properties**

Large monoclinic prisms from water; mp 169-170.2°C, d<sub>4</sub><sup>25</sup> 1.293, uv max (ethanol): 250 nm (ε 12000). Freely sol in alcohol. Sol in methanol, ethanol, dimethylformamide, ethylene dichloride, acetone, ethyl acetate, boiling water, 1% sodium hydroxide. Slightly sol in ether. Very slightly sol in cold water. Practically insol in petr ether, pentane, benzene. LD<sub>50</sub> in mice (mg/kg): 330 orally, 500 i.p. See: G. A. Stramer et al., *Toxicol. Appl. Pharmacol.* **19**, 26 (1971) 10.1016/0041-0106(71)90185-25570565; D. C. Dahlin, S. D. Nelson, *J. Med. Chem.* **26**, 685 (1983) 10.1021/jm00360a017120276.

**Use**

Manufacture dyes, photographic chemicals.

**References**

Synthetic non-opiate analgesic. Prep from p-nitrophenol; Morse, *Bar.* **11**, 232 (1878); Tingle, Williams, *Am. Chem. J.* **37**, 63 (1907); from p-aminophenol; Lumière et al., *Bull. Soc. Chim. Fr.* [3] **33**, 785 (1905); Farz-David, Kuster, *Helv. Chim. Acta* **19**, 1099 (1936); Wilbert, De Angelis, US 2998450 (1961 to Warner-Lambert); Bergmann, DE 453577; *Chem. Abstr.* **1928**, 1, 2663; Frol. **16**, 238; from p-hydroxyacetophenone hydrazone; Pearson et al., *J. Am. Chem. Soc.* **76**, 5076 (1954); Evaluation of renal effects; D. P. Sandler et al., *N. Engl. J. Med.* **320**, 1238 (1989); *Chem. Abstr.* **11923**; Evaluation of renal effects; A. R. Temple et al., *Clin. Ther.* **28**, 222 (2006) 10.1016/j.clinthera.2006.02.00418818845; Molecular toxicology; R. D. Josephy, *Drug Metab. Rev.* **37**, 581 (2005) 10.1080/036025305002001093086; Comprehensive description; J. E. Fairbrother, *Anal. Profiles Drug Subs.* **3**, 1-106 (1974); Review of pharmacology; B. Ameer, D. J. Greenblatt, *Ann. Intern. Med.* **87**, 262-269 (1977)329728; Review of mechanism of hepatotoxicity; L. R. James et al., *Drug Metab. Dispos.* **31**, 1499-1506 (2003) 10.1124/dmd.31.12.149914625346; of acetaminophen-induced acute liver failure; A. M. Larson et al., *Hepatology* **42**, 1364-1372 (2005) 10.1002/hep.2094916317692.

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