

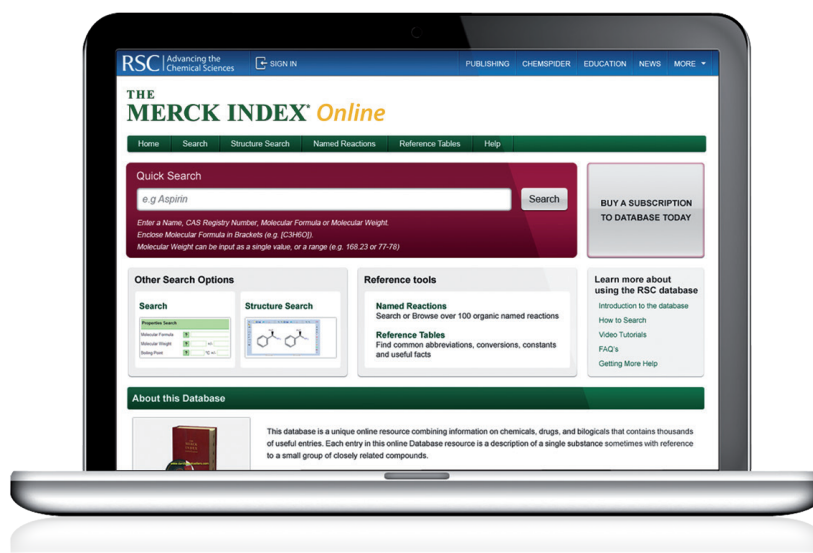
THE MERCK INDEX* *Online*

Chemistry's Constant Companion™

超過120年以來，《The Merck Index》一書長期被評價為當代最具權威性及最可靠的化學物質、藥品、及生物製品的資訊來源。現在，從RSC Publishing平台也能登入The Merck Index Online資料庫，最多可供全機構線上瀏覽。

透過使用The Merck Index Online此一方面又易檢索的全文資料庫，使用者可以在其中瀏覽搜尋高度權威性的知識：

- ✓ 物質組成專題論述
 - 名稱、俗名、及商品名
 - 化學結構式
 - 物理性質(如溶點、沸點、密度等)
 - 應用用途及用法
 - 生物活性資料
 - 參考文獻
- ✓ 收錄超過500條有機命名反應
- ✓ 參考圖表



收錄主題

- 人類及獸醫用藥
- 生物科技製藥及單細胞抗體
- 醫療成像使用物質
- 生物及自然製品
- 植物及草藥醫學
- 保健食品及藥妝品
- 實驗試劑及催化劑
- 染料、顏料及指示劑
- 環境顯著影響物質
- 易上癮食品及營養食品
- 調味料及香味
- 農用化學物質、殺蟲劑及除草劑
- 工業用及特別用途之化學物質

適用對象

化學家、生物化學家、藥師、藥理學家、毒物學家、醫藥領域之研究者、學生、老師、學術機構圖書館及學術研究者、資訊管理專家、記者及政府機構等。

相關資訊

新 15th Edition

更新頻率季

內容: 11, 500條專題論述(至20113年四月止)、超過500條有機命名反應。

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範例內容

THE MERCK INDEX Online

Home Search Structure Search Named Reactions Reference Tables Help

Home > Monograph

Monograph Details

Monograph ID: MONO1500000047
Title: Acetaminophen
CAS Registry Number: 103-90-2
CAS Name: N-(4-Hydroxyphenyl)acetamide
Additional Names: 4'-hydroxyacetanilide, p-hydroxyacetanilide, p-acetamidophenol, p-acetaminophenol, p-acetylaminophenol, N-acetyl-p-aminophenol, paracetamol
Trademark Names: Acamol (Volta), Alpin (SS Pharm.), Alvedon (AstraZeneca), Anhiba (Abbott), Ben-u-ron (Novartis), Calpol (Pfizer), Calradol (Bayer), Captin (Krewel), Dafalgan (BMS), Datriil (BMS), Dirox (Gramon), Disprol (Reckitt Benckiser), Dolprane (Sanofi-Aventis), Dolitabs (Sanofi-Aventis), Dolviran (Bayer), Efferalgan (BMS), Efferalganodis (UPSA), Eneifa (Dolorgiet), Expandox (Expanpharm), Fensum (Merckle), Geluprane (Sanofi-Aventis), Hedex (GSK), Malex (Ecosol), Mejalralito (GSK), Panadol (GSK), Panamax (Sanofi-Aventis), Panodil (GSK), Pasolind N (Stada), Perfalqan (BMS), Sanipirina (Bayer), Sedalito (Merck KGaA), Tempra (BMS), Tylenol (McNeil)
Molecular Formula: C₈H₉NO₂
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 169-170.5°C, d₄²¹ 1.293, uv max (ethanol): 250 nm (ε 13800). Freely sol in alcohol. Sol in methanol, ethanol, dimethylformamide, ethylene dichloride, acetone, ethyl acetate, boiling water, 1N sodium hydroxide. Slightly sol in ether. Very slightly sol in cold water. Practically insol in petr ether, pentane, benzene. LD₅₀ in mice (mg/kg): 338 orally, 500 i.p. See: G. A. Stramer et al., *Toxicol. Appl. Pharmacol.* **19**, 20 (1971) 10.1016/0041-008X(71)90185-25570565; D. C. Dahlo, S. G. Wilson, *J. Med. Chem.* **25**, 885 (1982) 10.1021/jm00350a0017120276.

Use

Manuf azo dyes, photographic chemicals.

References

Synthetic non-opiate analgesic. Prep from p-nitrophenol. Morse, *Ber.* **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); Fierz-David, Kuster, *Helv. Chim. Acta* **22**, 94 (1939); Wilbert, De Angelis, US 2998450 (1961 to Warner-Lambert); Bergmann, DE 453577; *Chem. Zentralbl.* **1928**, I, 2663; *Frdl.* **16**, 238; from p-hydroxyacetophenone hydrazone: Pearson et al., *J. Am. Chem. Soc.* **75**, 5907 (1953). Evaluation of renal effects: D. P. Sandler et al., *N. Engl. J. Med.* **320**, 1238 (1989)2651928. Clinical trial in osteoarthritis: A. R. Temple et al., *Clin. Ther.* **28**, 222 (2006) 10.1016/j.clinthera.2006.02.00416678643. Molecular toxicology: P. D. Josephy, *Drug Metab. Rev.* **37**, 581 (2005) 10.1080/0360253050020520016393886. Comprehensive description: J. E. Fairbrother, *Anal. Profiles Drug Subs.* **3**, 1-109 (1974). Review of pharmacology: B. Ameer, D. J. Greenblatt, *Ann. Intern. Med.* **87**, 202-209 (1977)329728. Review of mechanism of hepatotoxicity: L. P. James et al., *Drug Metab. Dispos.* **31**, 1499-1506 (2003) 10.1124/dmd.31.12.149914625346. Acetaminophen-induced acute liver failure: A. M. Larson et al., *Hepatology* **42**, 1364-1372 (2005) 10.1002/hep.2094816317692.

下載圖片及mol檔

外部資訊連結

屬性可獨立查詢

參考資料連結專題論述

使用者可以對一至數個屬性進行簡單的查詢、透過多重條件限制進行查詢、及搜索化學結構式。

✓ 文字查詢

- 組成物名稱
- Chemical Registry登記號
- 參考文獻及附註
- 獸醫治療用法
- 非醫療用法
- 病患醫療用法
- 製造商
- 全文

✓ 屬性查詢

- 分子公式
- 分子量
- 沸點
- 溶點
- 酸解離常數(pKa)
- Log P
- 密度(於特定重力中)
- 折光率
- 旋光性
- 閃點
- 最大吸收量
- 毒性

✓ 結構式及亞結構式查詢