



Formula: C<sub>8</sub>H<sub>9</sub>NO

MW: 135.17

CAS: 103-84-4

MDL NUMBER: MFCD00008674

IUPAC: N-phenylacetamide

Smiles: C(Nc1ccccc1)(=O)C

THERAPEUTIC CATEGORY: Analgesic,; Antipyretic

VET THERAP CATEGORY: Analgesic,; Antipyretic

ACCEPTORS: 1

DONORS: 1

ROTATION BONDS: 0

N+O: 2

Chiral Centers: 0

LogP: 1.17

LogS: -2.89

LIPINSKI: 4

Synonyms: ACETIC ACID  
ANILIDE;ACETYLAMINO BENZENE;ACETYL ANILINE;ACETANIL;ACETANILIDE;AKOS  
BBS-00004291;'LGC' (4002);'LGC' (2605)

CAS:103-84-4

MF:C8H9NO

MW:135.16

EINECS:203-150-7

Product Categories:Pharmaceutical Intermediates Acetanilide

Chemical Properties: mp 113-115 C(lit.) bp 304 C(lit.) density 1,121 g/cm<sup>3</sup> vapor density 4.65 (vs air) vapor pressure 1 mm Hg ( 114 C) Fp 173 C Water Solubility 5 g/L (25 C) Merck 14,50 BRN 606468 Stability:Stable. Combustible. Incompatible with strong oxidizing agents, caustics, alkalies.

CAS DataBase Reference: 103-84-4(

CAS DataBase Reference: ) NIST Chemistry ReferenceAcetamide, N-phenyl-(103-84-4) EPA Substance Registry SystemAcetamide, N-phenyl-(103-84-4) Xn Risk Statements 22-36/37/38 Safety Statements 22-26-36 WGK Germany 1 RTECS AD7350000 HS Code 29242995 Hazardous Substances Data103-84-4(Hazardous Substances Data) Acetanilide Acetanilide

Usage And Synthesis:

Chemical Properties: grey or white powder or flakes General DescriptionWhite to gray solid. Air & Water ReactionsAcetanilide is sensitive to prolonged exposure to air . Water insoluble. Reactivity ProfileAcetanilide is an amide. Flammable gases are formed by the reaction of organic amides with strong reducing agents. Amides are very weak bases (weaker than water). Imides are less basic yet and in fact react with strong bases to form salts. That is, they can react as acids. Mixing amides with dehydrating agents such as P<sub>2</sub>O<sub>5</sub> or SOCl<sub>2</sub> generates the corresponding nitrile. The combustion of these compounds generates mixed oxides of nitrogen (NO<sub>x</sub>). Fire HazardAcetanilide is combustible. Acetanilide



