>>**Entry Name: (4-Ethoxyphenyl)urea,** 9CI
ENTRY UNDER REVIEW
Synonym(s): *p*-Ureidophenetole. Dulcin. Sucrol. Valzin

CAS Registry Number: 150-69-6

Molecular Formula: $C_9H_{12}N_2O_2$
Molecular Weight: 180.206
Accurate Mass: 180.089878
Percentage Composition: C 59.99%; H 6.71%; N 15.55%; O 17.76%
Use/Importance: Sweetening agent ca. 250 times sweeter than sucrose. Prohibited from human food use in U.S. and other countries
Physical Description: Plates (H_2O)
Melting Point: Mp 173-174°
Hazard & Toxicity: Adverse CNS effects by ingestion. LD_{50} (rat, orl) 1900 mg/kg

Rare Chemicals Library: S57658-1
Sigma: D6631

>>**Derivative:** *N*-Ac

Molecular Formula: $C_{11}H_{14}N_2O_3$
Molecular Weight: 222.243
Accurate Mass: 222.100443
Percentage Composition: C 59.45%; H 6.35%; N 12.60%; O 21.60%
Melting Point: Mp 220°

>>**Derivative:** *N*-Benzoyl

Molecular Formula: $C_{16}H_{16}N_2O_3$
Molecular Weight: 284.314
Accurate Mass: 284.116093
Percentage Composition: C 67.59%; H 5.67%; N 9.85%; O 16.88%
Melting Point: Mp 215-217°

References:

Uhthoff, J. *et al.*, *CA*, 1929, **23**, 1889, *(synth)*
Sah, P.P.T. *et al.*, *Ber.*, 1936, **69**, 2762, *(synth)*
Roura, V.C., *CA*, 1942, **36**, 2845, *(synth)*
Org. Synth., Coll. Vol., 4, 1963, 52
Asabe, Y., *Bull. Chem. Soc. Jpn.*, 1971, **44**, 3482, *(nmr)*
Sen Gupta, A.K., *J. Indian Chem. Soc.*, 1972, **49**, 727, *(synth)*
IARC Monog., 1976, **12**, 97; *Suppl*. 7, 63, *(rev, tox)*
Goldsmith, R.H., *J. Chem. Educ.*, 1987, **64**, 954, *(rev)*
Lewis, R.J., *Food Additives Handbook*, Van Nostrand Reinhold International, New York, 1989, EFE000
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold*, 1992