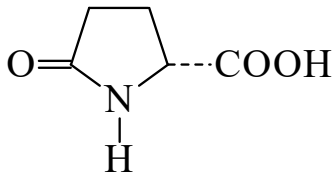
>>**Entry Name: 5-Oxo-2-pyrrolidinecarboxylic acid**
ENTRY UNDER REVIEW

Synonym(s): 5-Oxoproline, 9CI. **Pidolic acid,** INN. α-Aminoglutaric acid lactam. Glutimic acid lactam. Glutimic acid. Glutiminic acid. Pyroglutamic acid. 2-Pyrrolidone-5-carboxylic acid



(*R*)-*form*

Related CAS Registry Numbers(s): 28874-51-3

Molecular Formula: $C_5H_7NO_3$
Molecular Weight: 129.115
Accurate Mass: 129.042594
Percentage Composition: C 46.51%; H 5.46%; N 10.85%; O 37.17%
Use/Importance: Antihyperlipidaemic agent
Calculated Log P Data: Log P –1.27 (calc)

>>**Variant:** (*R*)-form
Synonym(s): D-form

CAS Registry Number: 4042-36-8
Molecular Formula: $C_5H_7NO_3$
Molecular Weight: 129.115
Accurate Mass: 129.042594
Percentage Composition: C 46.51%; H 5.46%; N 10.85%; O 37.17%
Physical Description: Cryst. (H_2O)
Melting Point: Mp 182°
Optical Rotation: $[\alpha]_D$ +10.7 (H_2O)
Aldrich: 42261-4
Fluka: 83167
Sigma: P2426

>>**Derivative:** Et ester

CAS Registry Number: 68766-96-1
Molecular Formula: $C_7H_{11}NO_3$
Molecular Weight: 157.169
Accurate Mass: 157.073894
Percentage Composition: C 53.49%; H 7.05%; N 8.91%; O 30.54%
Melting Point: Mp 50°
Aldrich: 30978-8
Fluka: 83173
Sigma: P9916

>>**Derivative:** Amide

Molecular Formula: $C_5H_8N_2O_2$
Molecular Weight: 128.13
Accurate Mass: 128.058578
Percentage Composition: C 46.87%; H 6.29%; N 21.86%; O 24.97%
Melting Point: Mp 165°

>>**Variant:** (*S*)-form
Synonym(s): L-form

CAS Registry Number: 98-79-3

Molecular Formula: $C_5H_7NO_3$
Molecular Weight: 129.115
Accurate Mass: 129.042594
Percentage Composition: C 46.51%; H 5.46%; N 10.85%; O 37.17%
Biological Source: Found in vegetables, fruits, grasses and molasses. Found in substantial amounts in brain tissue and other tissue in bound form, esp. skin
Use/Importance: Used in resoln. of amines
Physical Description: Cryst. (H_2O)
Melting Point: Mp 156-157°