

L-pyroglutamic acid

Other names:	Pidolic acid
	(S)-(-)-2-Pyrrolidone-5-carboxylic acid
	5-Oxo-L-proline
	L-2-Pyrrolidone-5-carboxylic acid
	L-Proline, 5-oxo-
	5-Oxoproline
	Proline, 5-oxo-
	5-Oxopyrrolidine-2-carboxylic acid
	5-Pyrrolidone-2-carboxylic acid
	Ajidew A-100
	l-5-Pyrrolidone-2-carboxylic acid
	PCA
	Pidolidone
	Pyroglutamic acid
	(-)-2-Pyrrolidone-5-carboxylic acid
	(5S)-2-xopyrrolidine-5-carboxylic acid
	(S)-5-Oxo-2-pyrrolidinecarboxylic acid
	2-L-Pyrrolidone-5-carboxylic acid
	2-Pyrrolidinone-5-carboxylic acid
	5-Carboxy-2-pyrrolidinone
	5-Pyrrolidinone-2-carboxylic acid
	Glutimic acid
	L-5-Carboxy-2-pyrrolidinone
	L-5-Oxo-2-pyrrolidinecarboxylic acid
	L-5-Oxoproline
	L-Glutamic acid «gamma»-lactam
	L-Glutiminic acid
	NSC 143034
	Pyrrolidonecarboxylic acid
Inchi:	InChI=1S/C5H7NO3/c7-4-2-1-3(6-4)5(8)9/h3H,1-2H2,(H,6,7)(H,8,9)/t3-/m1/s1
InchiKey:	ODHCTXKNWHXJC-VKHMYHEASA-N
Formula:	C5H7NO3
SMILES:	O=C1CC[C@H](C(=O)O)N1
Mol. weight [g/mol]:	129.11

Physical Properties

Property code	Value	Unit	Source
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hfus	17.43	kJ/mol	Joback Method
logp	-0.650		Crippen Method
mcvol	89.440	ml/mol	McGowan Method
tb	549.78	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	220.24	J/mol×K	591.50	Joback Method
cpg	230.15	J/mol×K	628.20	Joback Method
cpg	239.54	J/mol×K	664.90	Joback Method
cpg	248.40	J/mol×K	701.60	Joback Method
cpg	256.72	J/mol×K	738.30	Joback Method
cpg	264.47	J/mol×K	775.00	Joback Method
cpg	271.63	J/mol×K	811.70	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C98793&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature

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