5-nitroindole

Other names: indole, 5-nitro-

InChl=1S/C8H6N2O2/c11-10(12)7-1-2-8-6(5-7)3-4-9-8/h1-5,9H

InchiKey: OZFPSOBLQZPIAV-UHFFFAOYSA-N

Formula: C8H6N2O2

SMILES: O=[N+]([O-])c1ccc2[nH]ccc2c1

Mol. weight [g/mol]: 162.15

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.15		Crippen Method
logp	1.594		Crippen Method
mcvol	112.060	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
psub	9.42e-05	kPa	353.15	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline
psub	9.30e-05	kPa	353.15	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline
psub	9.30e-05	kPa	353.15	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline
psub	1.15e-04	kPa	355.20	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline

psub	1.12e-04	kPa	355.20	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	1.37e-04	kPa	357.18	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	1.34e-04	kPa	357.18	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	1.31e-04	kPa	357.18	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	1.72e-04	kPa	359.15	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	1.70e-04	kPa	359.15	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	1.67e-04	kPa	359.15	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	2.00e-04	kPa	361.19	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	2.01e-04	kPa	361.19	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	2.44e-04	kPa	363.17	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	

psub 2.36e-04 kPa 363.17 psub 3.14e-04 kPa 365.16	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline Experimental study on the thermochemistry
psub 3.14e-04 kPa 365.16	study on the
	of 5-nitroindole and 5-nitroindoline
psub 3.04e-04 kPa 365.16	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline
psub 2.93e-04 kPa 365.16	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline
psub 3.80e-04 kPa 367.19	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline
psub 3.69e-04 kPa 367.19	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline
psub 3.54e-04 kPa 367.19	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline
psub 4.45e-04 kPa 369.17	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline
psub 4.39e-04 kPa 369.17	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline
psub 4.32e-04 kPa 369.17	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline

psub	5.52e-04	kPa	371.17	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	5.46e-04	kPa	371.17	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	5.33e-04	kPa	371.17	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	6.82e-04	kPa	373.19	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	6.53e-04	kPa	373.19	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	6.31e-04	kPa	373.19	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	8.01e-04	kPa	375.17	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	
psub	7.69e-04	kPa	375.17	Experimental study on the thermochemistry of 5-nitroindole and 5-nitroindoline	

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Experimental study on the thermochemistry of 5-nitroindole and ฟูลลิณพลง ฟละกอน์:

https://www.doi.org/10.1016/j.jct.2008.09.014

http://link.springer.com/article/10.1007/BF02311772

Legend

log10ws:Log10 of Water solubility in mol/llogp:Octanol/Water partition coefficientmcvol:McGowan's characteristic volume

psub: Sublimation pressure

Latest version available from:

https://www.chemeo.com/cid/101-519-3/5-nitroindole.pdf

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