Pyridine, 3-phenyl-

Other names: 3-Phenylpyridine
3-phenylpyridine
m-Phenylpyridine
Inchi: InChI=1S/C11H9N/c1-2-5-10(6-3-1)11-7-4-8-12-9-11/h1-9H
InchiKey: HJKGBRPNSJADMB-UHFFFAOYSA-N
Formula: C11H9N
SMILES: c1ccc(-c2cccnc2)cc1
Mol. weight [g/mol]: 155.20
CAS: 1008-88-4

Physical Properties

Property code	Value	Unit	Source
hvap	64.50 ± 4.50	kJ/mol	NIST Webbook
hvap	68.40 ± 1.60	kJ/mol	NIST Webbook
log10ws	-3.84		Crippen Method
logp	2.749		Crippen Method
mcvol	128.310	ml/mol	McGowan Method
rinpol	1442.00		NIST Webbook
rinpol	1465.40		NIST Webbook
rinpol	1420.00		NIST Webbook
rinpol	1426.00		NIST Webbook
rinpol	1469.00		NIST Webbook
rinpol	250.03		NIST Webbook
rinpol	249.84		NIST Webbook
rinpol	1423.00		NIST Webbook
rinpol	1423.00		NIST Webbook
rinpol	1470.00		NIST Webbook
rinpol	250.03		NIST Webbook
rinpol	1470.00		NIST Webbook
rinpol	1442.00		NIST Webbook
ripol	2243.00		NIST Webbook
ripol	2200.00		NIST Webbook
ripol	2247.00		NIST Webbook
ripol	2207.00		NIST Webbook
ripol	2216.00		NIST Webbook
ripol	2293.00		NIST Webbook
ripol	2293.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	68.40	kJ/mol	298.00	Hypothetical Thermodynamic Properties. Subcooled Vaporization Enthalpies and Vapor Pressures of Polyaromatic Heterocycles and Related Compounds

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	542.70	K	99.90	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1008884&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Hypothetical Thermodynamic Properties. Subcooled Vaporization Enthalpies and Vapor Pressures of Polyaromatic Heterocycles and Related Compounds:	https://www.doi.org/10.1021/je900034d

Legend

hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tbrp:	Boiling point at reduced pressure