

Piperidine, 1-pentyl-

Other names:	1-Amyl piperidine 1-Pentylpiperidine N-Amylpiperidine N-Pentylpiperidine
Inchi:	InChI=1S/C10H21N/c1-2-3-5-8-11-9-6-4-7-10-11/h2-10H2,1H3
InchiKey:	LQWJONARYDIOSE-UHFFFAOYSA-N
Formula:	C10H21N
SMILES:	CCCCCN1CCCCC1
Mol. weight [g/mol]:	155.28
CAS:	10324-58-0

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.47		Crippen Method
logp	2.663		Crippen Method
mcvol	150.880	ml/mol	McGowan Method
ripol	1122.00		NIST Webbook
ripol	1124.00		NIST Webbook
ripol	1129.00		NIST Webbook
ripol	1129.00		NIST Webbook
ripol	1246.00		NIST Webbook
ripol	1242.00		NIST Webbook
ripol	1246.00		NIST Webbook
tb	471.35 ± 0.30	K	NIST Webbook
tb	466.65 ± 3.00	K	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.44838e+01
Coeff. B	-3.93796e+03
Coeff. C	-7.21850e+01

Temperature range (K), min.	349.58
Temperature range (K), max.	501.51

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10324580&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature

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