1H-Imidazole, 1-butyl-2-methyl

Other names:	1-butyl-2-methyl-1H-imidazole
	1-butyl-2-methylimidazole
Inchi:	InChI=1S/C8H14N2/c1-3-4-6-10-7-5-9-8(10)2/h5,7H,3-4,6H2,1-2H3
InchiKey:	WHLZPGRDRYCVRQ-UHFFFAOYSA-N
Formula:	C8H14N2
SMILES:	CCCCn1ccnc1C
Mol. weight [g/mol]:	138.21

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.81		Crippen Method
logp	1.992		Crippen Method
mcvol	124.080	ml/mol	McGowan Method
rinpol	1226.00		NIST Webbook
rinpol	1226.00		NIST Webbook
ripol	1876.00		NIST Webbook
ripol	1876.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source	
рvар	2.35e-03	kPa	293.60 1-(n-A	Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of Ikyl)-2-methylimida:	zoles
pvap	2.92e-03	kPa	296.20 1-(n-A	Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of Ikyl)-2-methylimida:	zoles

pvap	3.44e-03	kPa	298.20 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles
pvap	4.30e-03	kPa	300.10 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles
рvар	5.47e-03	kPa	303.10 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles
рvар	6.51e-03	kPa	305.10 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles
pvap	7.72e-03	kPa	307.20 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles
рvар	0.01	kPa	310.20 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles
pvap	0.01	kPa	311.10 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles

рvар	0.01	kPa	313.20 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles	
рvар	0.01	kPa	313.20 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles	
рvар	0.01	kPa	314.10 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles	
рvар	0.02	kPa	316.10 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles	
рvар	0.02	kPa	317.10 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles	
рvар	0.02	kPa	319.10 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles	
pvap	0.03	kPa	322.10 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles	

рvар	0.03	kPa	325.10 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles
рvар	0.04	kPa	328.10 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles
рvар	0.05	kPa	330.10 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles
рvар	0.05	kPa	331.10 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles
рvар	0.06	kPa	334.00 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles
рvар	0.08	kPa	337.00 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles
рvар	0.08	kPa	337.00 Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of 1-(n-Alkyl)-2-methylimidazoles

pvap	0.09	kPa	340.00 1-(n	Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of -Alkyl)-2-methylimidazoles	
pvap	0.11	kPa	342.00 1-(n	Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of -Alkyl)-2-methylimidazoles	
pvap	0.11	kPa	343.00 1-(n	Building Blocks for Ionic Liquids: A Study of Alkyl Chain Length Dependence of Vaporization Enthalpies of -Alkyl)-2-methylimidazoles	

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Building Blocks for Ionic Liquids: A	https://www.doi.org/10.1021/je200336c
be server deed waporization Enthalpies	http://link.springer.com/article/10.1007/BF02311772
of 1-(n-Alkyl)-2-methylimidazoles : NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R68281&Units=SI

Legend

log10ws:Log10 of Water solubility in mol/llogp:Octanol/Water partition coefficientmcvol:McGowan's characteristic volumepvap:Vapor pressurerinpol:Non-polar retention indicesripol:Polar retention indices

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