

# Piperazine, 1,4-diethyl-

<b>Other names:</b>	1,4-Diethylpiperazine
<b>Inchi:</b>	InChI=1S/C8H18N2/c1-3-9-5-7-10(4-2)8-6-9/h3-8H2,1-2H3
<b>InchiKey:</b>	DDPRYTUJYNYJKV-UHFFFAOYSA-N
<b>Formula:</b>	C8H18N2
<b>SMILES:</b>	CCN1CCN(CC)CC1
<b>Mol. weight [g/mol]:</b>	142.24
<b>CAS:</b>	6483-50-7

## Physical Properties

Property code	Value	Unit	Source
log10ws	-0.21		Crippen Method
logp	0.644		Crippen Method
mcvol	132.680	ml/mol	McGowan Method
ripol	1030.00		NIST Webbook
ripol	1028.00		NIST Webbook
ripol	1026.00		NIST Webbook
ripol	1294.00		NIST Webbook
ripol	1304.00		NIST Webbook
ripol	1307.00		NIST Webbook
ripol	1278.00		NIST Webbook
ripol	1267.00		NIST Webbook
ripol	1282.00		NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.12540e+01
Coeff. B	-2.90159e+03
Coeff. C	-6.07320e+01
Temperature range (K), min.	281.90
Temperature range (K), max.	549.01

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6483507&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6483507&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>

# Legend

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pvap:</b>	Vapor pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices

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