

# Pentalene

<b>Inchi:</b>	InChI=1S/C8H6/c1-3-7-5-2-6-8(7)4-1/h1-6H
<b>InchiKey:</b>	GUVXZFRDPCKWEM-UHFFFAOYSA-N
<b>Formula:</b>	C8H6
<b>SMILES:</b>	C1=CC2=CC=CC2=C1
<b>Mol. weight [g/mol]:</b>	102.13
<b>CAS:</b>	250-25-9

## Physical Properties

Property code	Value	Unit	Source
gf	229.78	kJ/mol	Joback Method
hf	173.69	kJ/mol	Joback Method
hfus	10.51	kJ/mol	Joback Method
hvap	36.68	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	1.979		Crippen Method
mvol	84.660	ml/mol	McGowan Method
pc	4468.24	kPa	Joback Method
tb	420.40	K	Joback Method
tc	643.77	K	Joback Method
tf	245.32	K	Joback Method
vc	0.328	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	147.98	J/molxK	420.40	Joback Method
cpg	159.05	J/molxK	457.63	Joback Method
cpg	169.17	J/molxK	494.86	Joback Method
cpg	178.40	J/molxK	532.09	Joback Method
cpg	186.82	J/molxK	569.32	Joback Method
cpg	194.51	J/molxK	606.55	Joback Method
cpg	201.54	J/molxK	643.77	Joback Method
dvisc	0.0008643	Paxs	245.32	Joback Method
dvisc	0.0007055	Paxs	274.50	Joback Method

dvisc	0.0005988	Paxs	303.68	Joback Method
dvisc	0.0005230	Paxs	332.86	Joback Method
dvisc	0.0004669	Paxs	362.04	Joback Method
dvisc	0.0004239	Paxs	391.22	Joback Method
dvisc	0.0003901	Paxs	420.40	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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=C250259&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C250259&amp;Units=SI</a>
<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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<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>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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