

# Cyclopropane, 1,2-dimethyl-3-pentyl-

<b>Inchi:</b>	InChI=1S/C10H20/c1-4-5-6-7-10-8(2)9(10)3/h8-10H,4-7H2,1-3H3
<b>InchiKey:</b>	IPMTXCVSSNHQAF-UHFFFAOYSA-N
<b>Formula:</b>	C10H20
<b>SMILES:</b>	CCCCC1C(C)C1C
<b>Mol. weight [g/mol]:</b>	140.27
<b>CAS:</b>	62238-05-5

## Physical Properties

Property code	Value	Unit	Source
gf	78.65	kJ/mol	Joback Method
hf	-217.61	kJ/mol	Joback Method
hfus	21.93	kJ/mol	Joback Method
hvap	37.15	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	3.469		Crippen Method
mcvol	140.900	ml/mol	McGowan Method
pc	2237.64	kPa	Joback Method
rinpol	944.00		NIST Webbook
rinpol	944.00		NIST Webbook
tb	425.60	K	Joback Method
tc	600.09	K	Joback Method
tf	211.92	K	Joback Method
vc	0.550	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.64	J/mol×K	425.60	Joback Method
cpg	317.66	J/mol×K	454.68	Joback Method
cpg	333.96	J/mol×K	483.76	Joback Method
cpg	349.56	J/mol×K	512.85	Joback Method
cpg	364.49	J/mol×K	541.93	Joback Method
cpg	378.77	J/mol×K	571.01	Joback Method
cpg	392.43	J/mol×K	600.09	Joback Method

dvisc	0.0006608	Paxs	211.92	Joback Method
dvisc	0.0005611	Paxs	247.53	Joback Method
dvisc	0.0004965	Paxs	283.15	Joback Method
dvisc	0.0004515	Paxs	318.76	Joback Method
dvisc	0.0004185	Paxs	354.37	Joback Method
dvisc	0.0003933	Paxs	389.99	Joback Method
dvisc	0.0003735	Paxs	425.60	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>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=C62238055&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C62238055&amp;Units=SI</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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<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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