

# 4,9-dichlorodecane

<b>Inchi:</b>	InChI=1S/C10H20Cl2/c1-3-6-10(12)8-5-4-7-9(2)11/h9-10H,3-8H2,1-2H3
<b>InchiKey:</b>	AVQDACLTGZNHAK-UHFFFAOYSA-N
<b>Formula:</b>	C10H20Cl2
<b>SMILES:</b>	CCCC(Cl)CCCC(C)Cl
<b>Mol. weight [g/mol]:</b>	211.17

## Physical Properties

Property code	Value	Unit	Source
gf	4.58	kJ/mol	Joback Method
hf	-291.77	kJ/mol	Joback Method
hfus	23.00	kJ/mol	Joback Method
hvap	45.85	kJ/mol	Joback Method
log10ws	-4.54		Crippen Method
logp	4.582		Crippen Method
mcvol	176.240	ml/mol	McGowan Method
pc	2000.12	kPa	Joback Method
tb	502.18	K	Joback Method
tc	683.82	K	Joback Method
tf	232.30	K	Joback Method
vc	0.681	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.69	J/molxK	502.18	Joback Method
cpg	395.59	J/molxK	532.45	Joback Method
cpg	409.82	J/molxK	562.73	Joback Method
cpg	423.40	J/molxK	593.00	Joback Method
cpg	436.35	J/molxK	623.27	Joback Method
cpg	448.68	J/molxK	653.54	Joback Method
cpg	460.42	J/molxK	683.82	Joback Method
dvisc	0.0106207	Paxs	232.30	Joback Method
dvisc	0.0033082	Paxs	277.28	Joback Method
dvisc	0.0014270	Paxs	322.26	Joback Method

dvisc	0.0007564	Paxs	367.24	Joback Method
dvisc	0.0004605	Paxs	412.22	Joback Method
dvisc	0.0003091	Paxs	457.20	Joback Method
dvisc	0.0002228	Paxs	502.18	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R295784&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R295784&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>
<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>

## 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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