

# Alpha,alpha,alpha,alpha',alpha',alpha'-4-heptachloro

<b>Inchi:</b>	InChI=1S/C8H3Cl7/c9-6-2-1-4(7(10,11)12)3-5(6)8(13,14)15/h1-3H
<b>InchiKey:</b>	OGKCWNMIXCBFQB-UHFFFAOYSA-N
<b>Formula:</b>	C8H3Cl7
<b>SMILES:</b>	Clc1ccc(C(Cl)(Cl)Cl)cc1C(Cl)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	347.28
<b>CAS:</b>	27260-64-6

## Physical Properties

Property code	Value	Unit	Source
gf	31.80	kJ/mol	Joback Method
hf	-122.54	kJ/mol	Joback Method
hfus	24.29	kJ/mol	Joback Method
hvap	65.11	kJ/mol	Joback Method
log10ws	-6.16		Crippen Method
logp	5.993		Crippen Method
mcvol	185.500	ml/mol	McGowan Method
pc	2752.67	kPa	Joback Method
tb	674.63	K	Joback Method
tc	951.31	K	Joback Method
tf	445.66	K	Joback Method
vc	0.697	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.26	J/molxK	674.63	Joback Method
cpg	361.01	J/molxK	905.20	Joback Method
cpg	357.09	J/molxK	859.09	Joback Method
cpg	352.71	J/molxK	812.97	Joback Method
cpg	347.72	J/molxK	766.86	Joback Method
cpg	341.96	J/molxK	720.74	Joback Method
cpg	364.62	J/molxK	951.31	Joback Method
dvisc	0.0001447	Paxs	674.63	Joback Method
dvisc	0.0001835	Paxs	636.47	Joback Method

dvisc	0.0002400	Paxs	598.31	Joback Method
dvisc	0.0003254	Paxs	560.14	Joback Method
dvisc	0.0004614	Paxs	521.98	Joback Method
dvisc	0.0006912	Paxs	483.82	Joback Method
dvisc	0.0011097	Paxs	445.66	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C27260646&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C27260646&amp;Units=SI</a>
<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>

## 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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