

# 3-Heptanone, 2,4-dichloro (RR, SS)

Inchi:	InChI=1S/C7H12Cl2O/c1-3-4-6(9)7(10)5(2)8/h5-6H,3-4H2,1-2H3
InchiKey:	DQJUTHPOQJSEPV-UHFFFAOYSA-N
Formula:	C7H12Cl2O
SMILES:	CCCC(Cl)C(=O)C(C)Cl
Mol. weight [g/mol]:	183.08

## Physical Properties

Property code	Value	Unit	Source
gf	-149.60	kJ/mol	Joback Method
hf	-342.43	kJ/mol	Joback Method
hfus	16.83	kJ/mol	Joback Method
hvap	45.92	kJ/mol	Joback Method
log10ws	-2.56		Crippen Method
logp	2.590		Crippen Method
mcvol	135.540	ml/mol	McGowan Method
pc	2814.34	kPa	Joback Method
rinpola	1102.00		NIST Webbook
rinpola	1102.00		NIST Webbook
tb	487.41	K	Joback Method
tc	685.16	K	Joback Method
tf	248.42	K	Joback Method
vc	0.519	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	268.72	J/molxK	487.41	Joback Method
cpg	279.89	J/molxK	520.37	Joback Method
cpg	290.49	J/molxK	553.33	Joback Method
cpg	300.54	J/molxK	586.29	Joback Method
cpg	310.05	J/molxK	619.25	Joback Method
cpg	319.06	J/molxK	652.21	Joback Method
cpg	327.56	J/molxK	685.16	Joback Method
dvisc	0.0077940	Paxs	248.42	Joback Method

dvisc	0.0031406	Paxs	288.25	Joback Method
dvisc	0.0015781	Paxs	328.08	Joback Method
dvisc	0.0009203	Paxs	367.91	Joback Method
dvisc	0.0005964	Paxs	407.75	Joback Method
dvisc	0.0004175	Paxs	447.58	Joback Method
dvisc	0.0003098	Paxs	487.41	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R630078&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R630078&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>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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